SCHEMATIC DIAGRAM

MODEL : 51H83 / 57H83 / 65H83

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

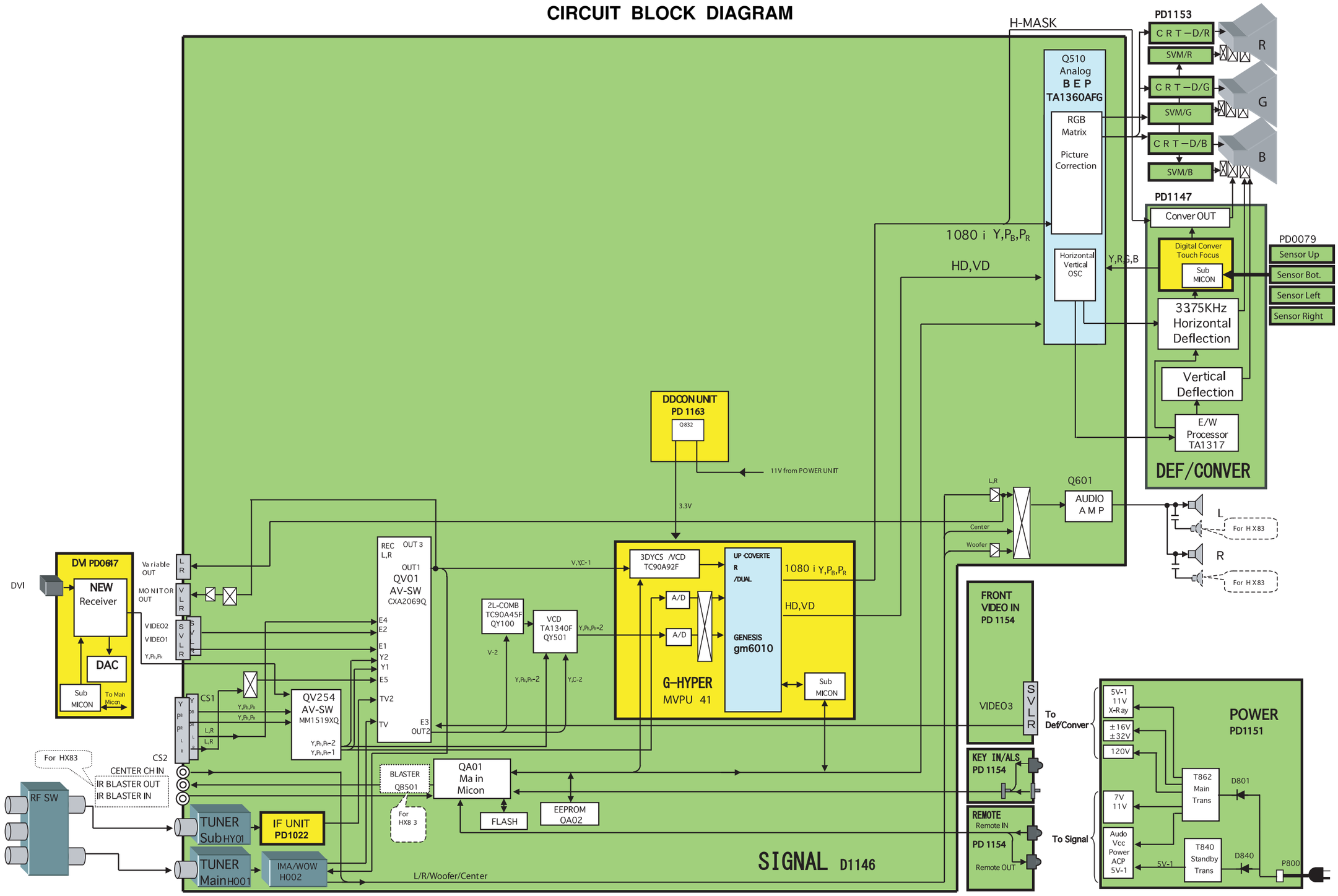
NOTE:

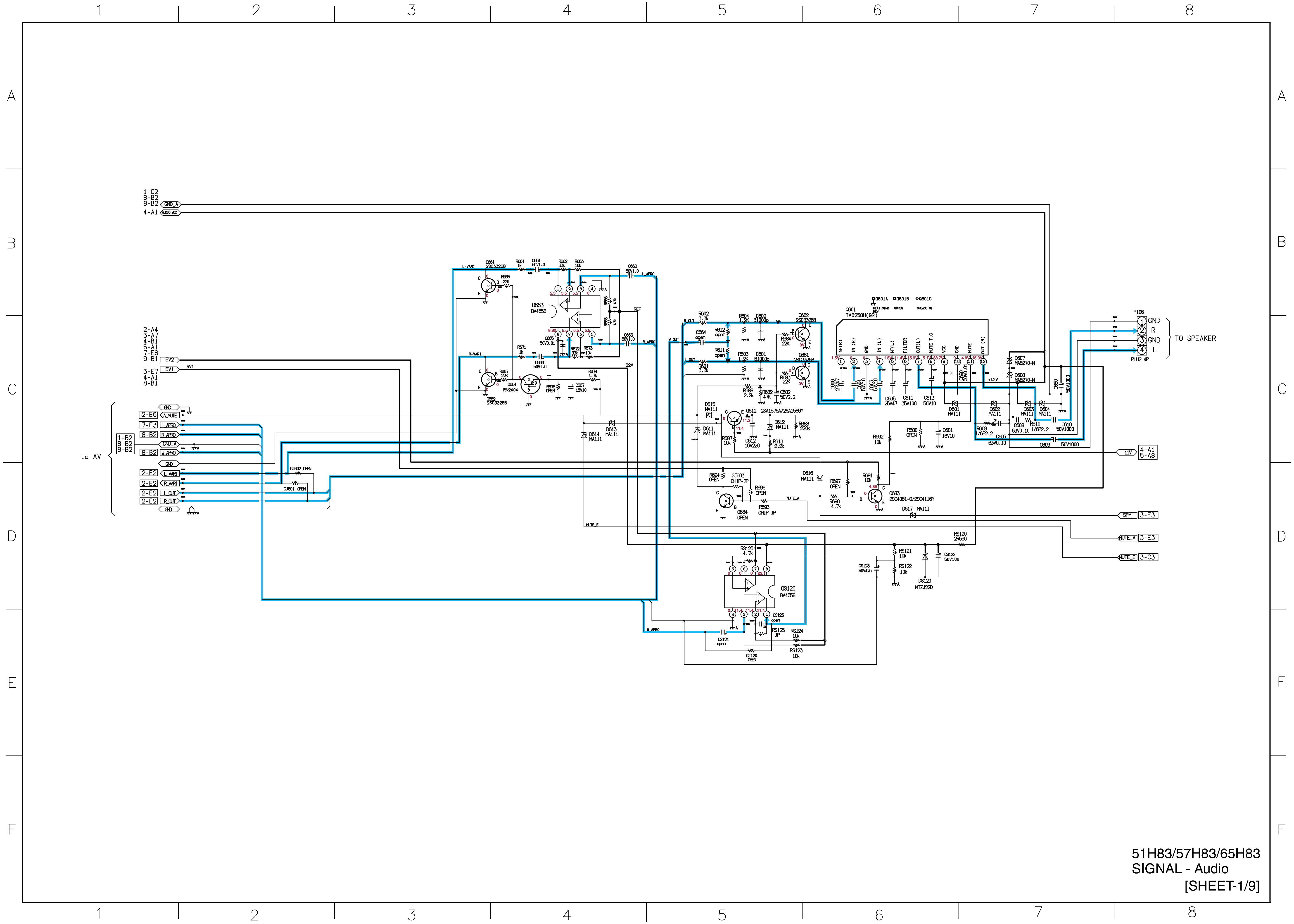
1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 120 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ **SCHEMATIC DIAGRAM STRUCTURE:**

- SIGNAL Circuit
  - Audio [SHEET - 1/9] 1/22
  - AV-1 [SHEET - 2/9] 2/22
  - Maicon [SHEET - 3/9] 3/22
  - REGULATOR [SHEET - 4/9] 4/22
  - Video [SHEET - 5/9] 5/22
  - AV-2 [SHEET - 6/9] 6/22
  - AV-3 [SHEET - 7/9] 7/22
  - IF [SHEET - 8/9] 8/22
  - SYNC OUT [SHEET - 9/9] 9/22
- POWER Circuit
  - (1/2) [SHEET - 1/2] 10/22
  - (2/2) [SHEET - 2/2] 11/22
- DEF / CONVER Circuit
  - Vertical [SHEET - 1/3] 12/22
  - DEF [SHEET - 2/3] 13/22
  - CONVER-OUT [SHEET - 3/3] 14/22
- CRT / SVM Circuit (51") 15/22
- CRT / SVM Circuit (57"/65")
  - CRT-DRIVE [SHEET - 1/2] 16/22
  - SVM [SHEET - 2/2] 17/22
- DD-CON Circuit
  - (1/2) [SHEET - 1/2] 18/22
  - CONVER-OUT (2/2) [SHEET - 2/2] 19/22
- FRONT Circuit 20/22
- T. FOCUS-SENSOR Circuit 21/22
- IF Circuit 22/22

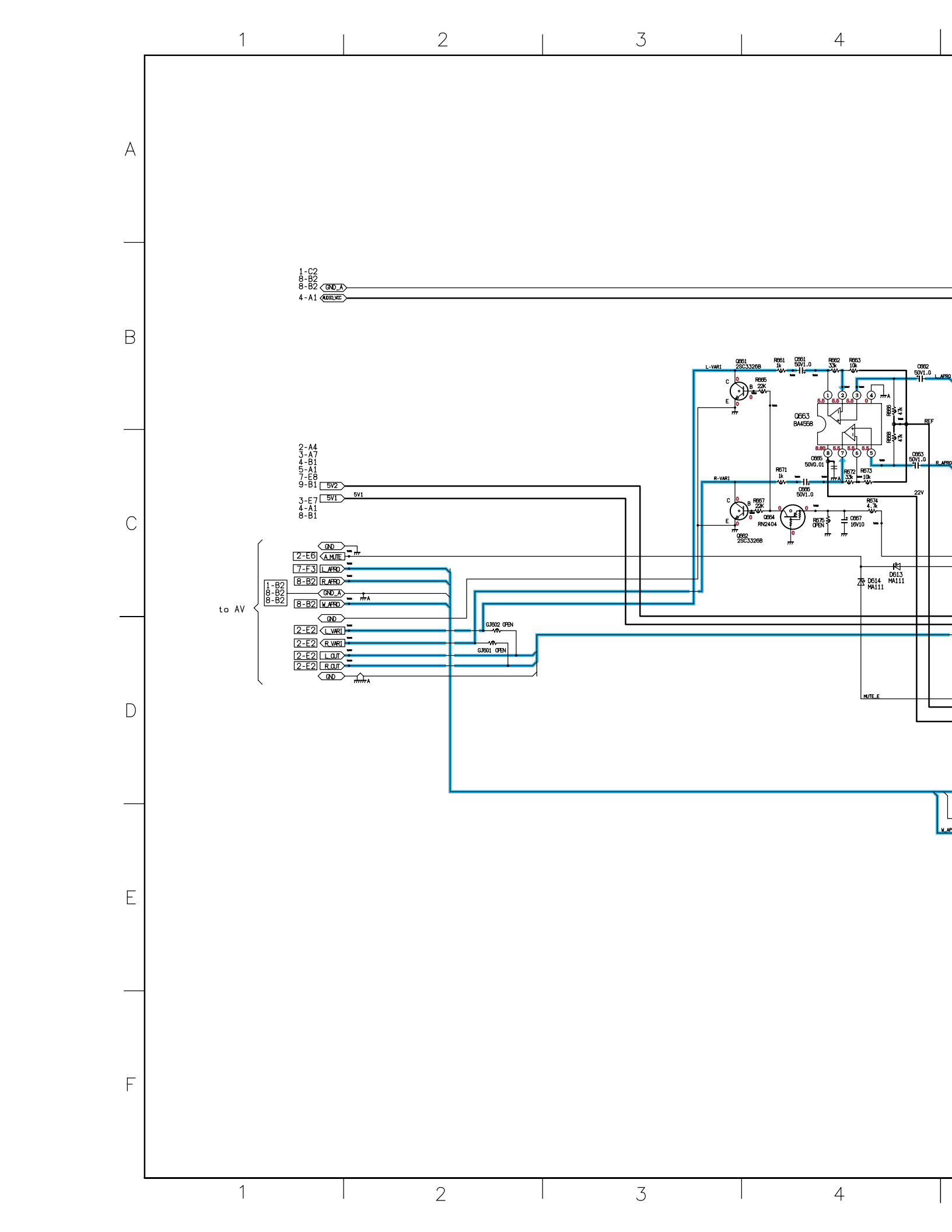
CIRCUIT BLOCK DIAGRAM

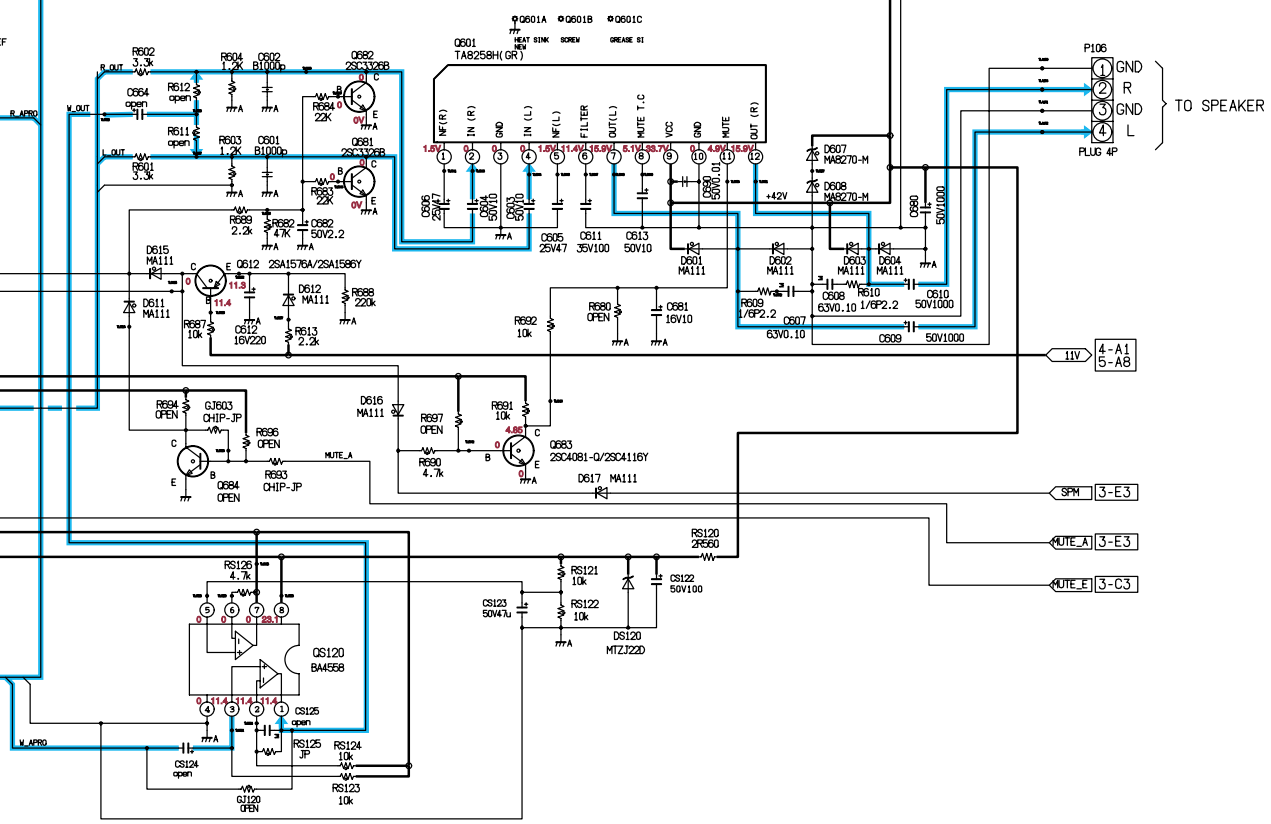




1-C2
8-B2
8-B2
GND_A
4-A1
AUDIO_VCC
2-A4
3-A7
4-B1
5-A1
7-E8
9-B1
5V2
5V1
3-E7
4-A1
8-B1
to AV
GND
2-E6 A_MUTE
7-F3 L_APRO
8-B2 R_APRO
1-B2 8-B2 8-B2 GND_A
8-B2 W_APRO
GND
2-E2 L_VARI
2-E2 R_VARI
2-E2 L_OUT
2-E2 R_OUT
GND
GJ602 OPEN
GJ601 OPEN
L-VARI
Q661 2SC3326B
R665 22K
R661 1k
C661 50V1.0
R662 33k
R663 10k
C662 50V1.0
L_APRO
Q663 BA4558
R666 47k
R668 47k
REF
C665 50V0.01
R672 33k
R673 10k
C663 50V1.0
R_APRO
R-VARI
R671 1k
C666 50V1.0
Q662 2SC3326B
R667 22K
Q664 RN2404
R675 OPEN
C667 16V10
R674 4.7k
22V
D614 MA111
D613 MA111
MUTE_E
R_OUT
W_OUT
L_OUT
R602 3.3k
C664 open
R612 open
R611 open
R601 3.3k
R604 1.2K
C602 B1000p
R603 1.2K
C601 B1000p
Q682 2SC3326B
R684 22K
Q681 2SC3326B
R683 22K
R689 2.2k
R682 47K
C682 50V2.2
D615 MA111
Q612 2SA1576A/2SA1586Y
D611 MA111
D612 MA111
R688 220k
R687 10k
C612 16V220
R613 2.2k
Q601A Q601B Q601C
HEAT SINK NEW
SCREW
GREASE SI
Q601 TA8258H(GR)
NF(R) IN (R) GND IN (L) NF(L) FILTER OUT(L) MUTE T.C VCC GND MUTE OUT (R)
C606 25V47
C604 50V10
C603 50V10
C605 25V47
C611 35V100
C613 50V10
C690 50V0.01
+42V
D601 MA111
D602 MA111
D603 MA111
D604 MA111
D607 MA8270-M
D608 MA8270-M
C680 50V1000
R609 1/6P2.2
C608 63V0.10
R610 1/6P2.2
C610 50V1000
C607 63V0.10
C609 50V1000
P106
GND
R
GND
L
PLUG 4P
TO SPEAKER
R692 10k
R680 OPEN
C681 16V10
11V
4-A1
5-A8
R694 OPEN
GJ603 CHIP-JP
R696 OPEN
Q684 OPEN
R693 CHIP-JP
MUTE_A
D616 MA111
R697 OPEN
R690 4.7k
R691 10k
Q683 2SC4081-Q/2SC4116Y
D617 MA111
SPM 3-E3
MUTE_A 3-E3
MUTE_E 3-C3
RS120 2R560
RS126 4.7k
QS120 BA4558
RS121 10k
RS122 10k
CS123 50V47u
CS122 50V100
DS120 MTZJ22D
CS125 open
RS125 JP
RS124 10k
RS123 10k
W_APRO
CS124 open
GJ120 OPEN

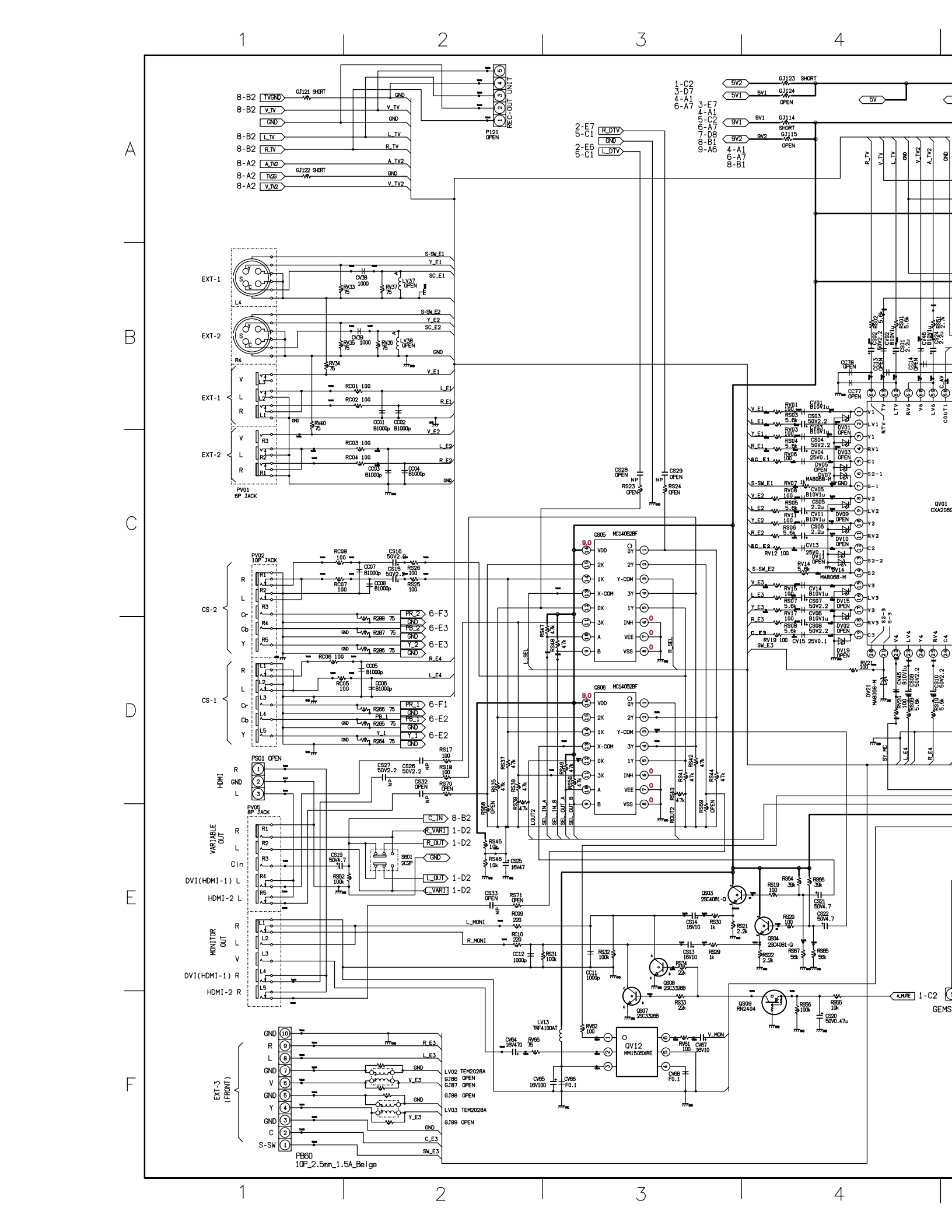
51H83/57H83/65H83
SIGNAL - Audio
[SHEET-1/9]

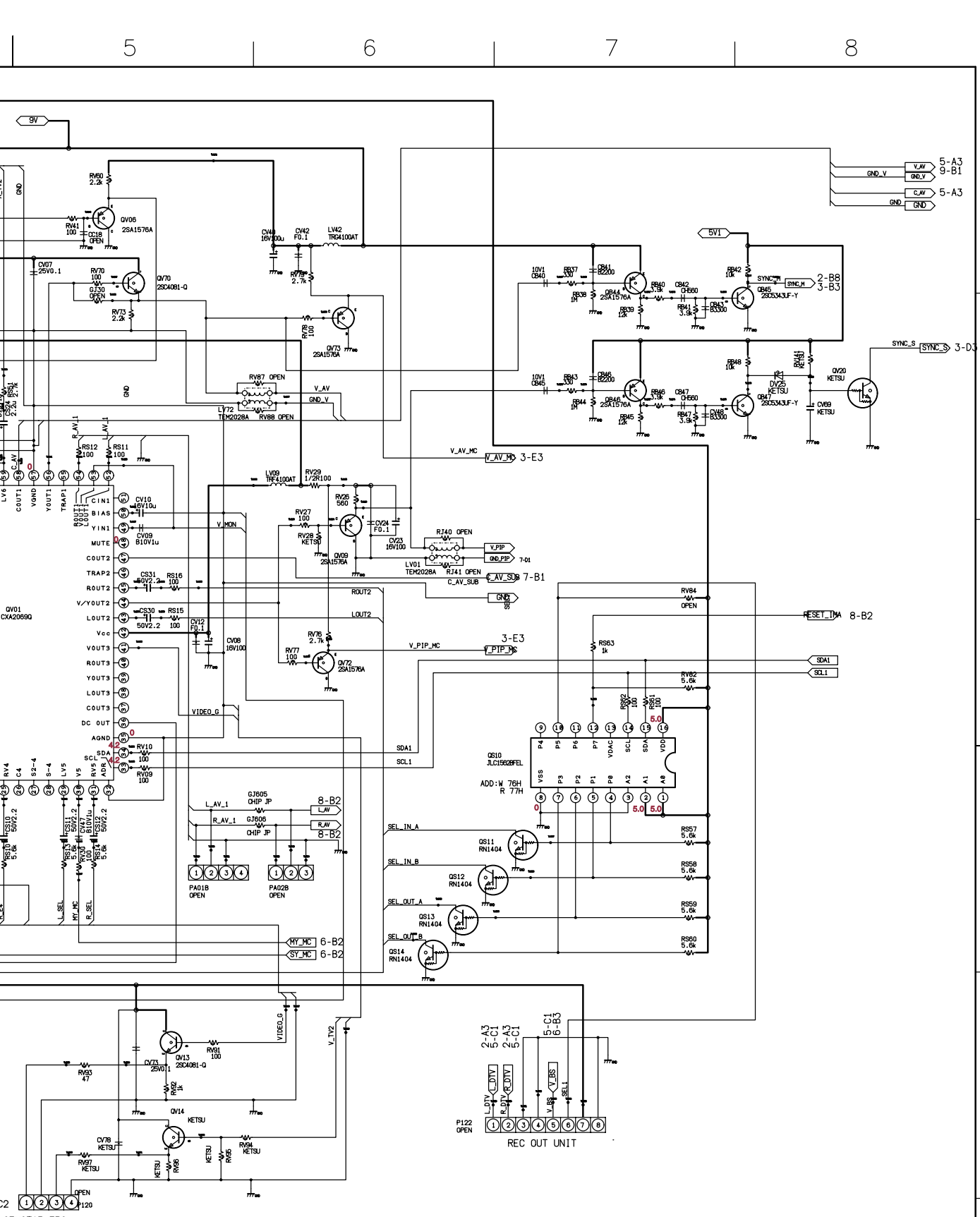

1-C2
8-B2
8-B2 GND_A
4-A1 AUDIO_VCC
2-A4
3-A7
4-B1
5-A1
7-E8
9-B1 5V2
3-E7 5V1
4-A1
8-B1
to AV
1-B2
8-B2
8-B2
GND
2-E6 A_MUTE
7-F3 L_APRO
8-B2 R_APRO
GND_A
8-B2 W_APRO
GND
2-E2 L_VARI
2-E2 R_VARI
2-E2 L_OUT
2-E2 R_OUT
GND
GJ602 OPEN
GJ601 OPEN
L-VARI
Q661 2SC3326B
R661 1k
C661 50V1.0
R662 33k
R663 10k
C662 50V1.0
L_APRO
R665 22k
Q663 BA4558
R669 4.7k
REF
R668 4.7k
C663 50V1.0
R_APRO
C665 50V0.01
R671 1k
R672 33k
R673 10k
R-VARI
C666 50V1.0
22V
R667 22k
Q664 RN2404
R674 4.7k
R675 OPEN
C667 16V10
Q662 2SC3326B
D613 MA111
D614 MA111
MUTE_E



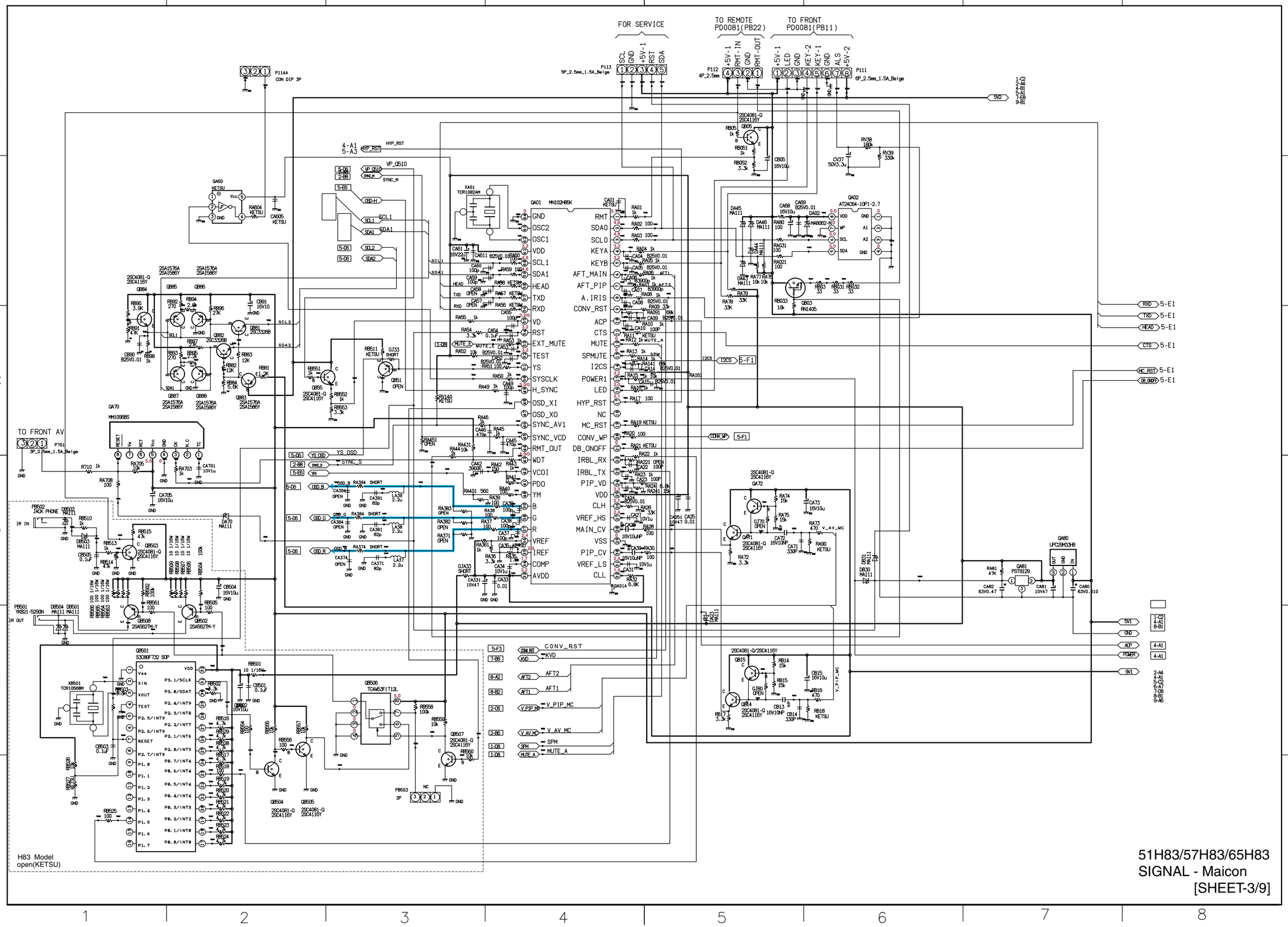
51H83/57H83/65H83
SIGNAL - Audio
[SHEET-1/9]

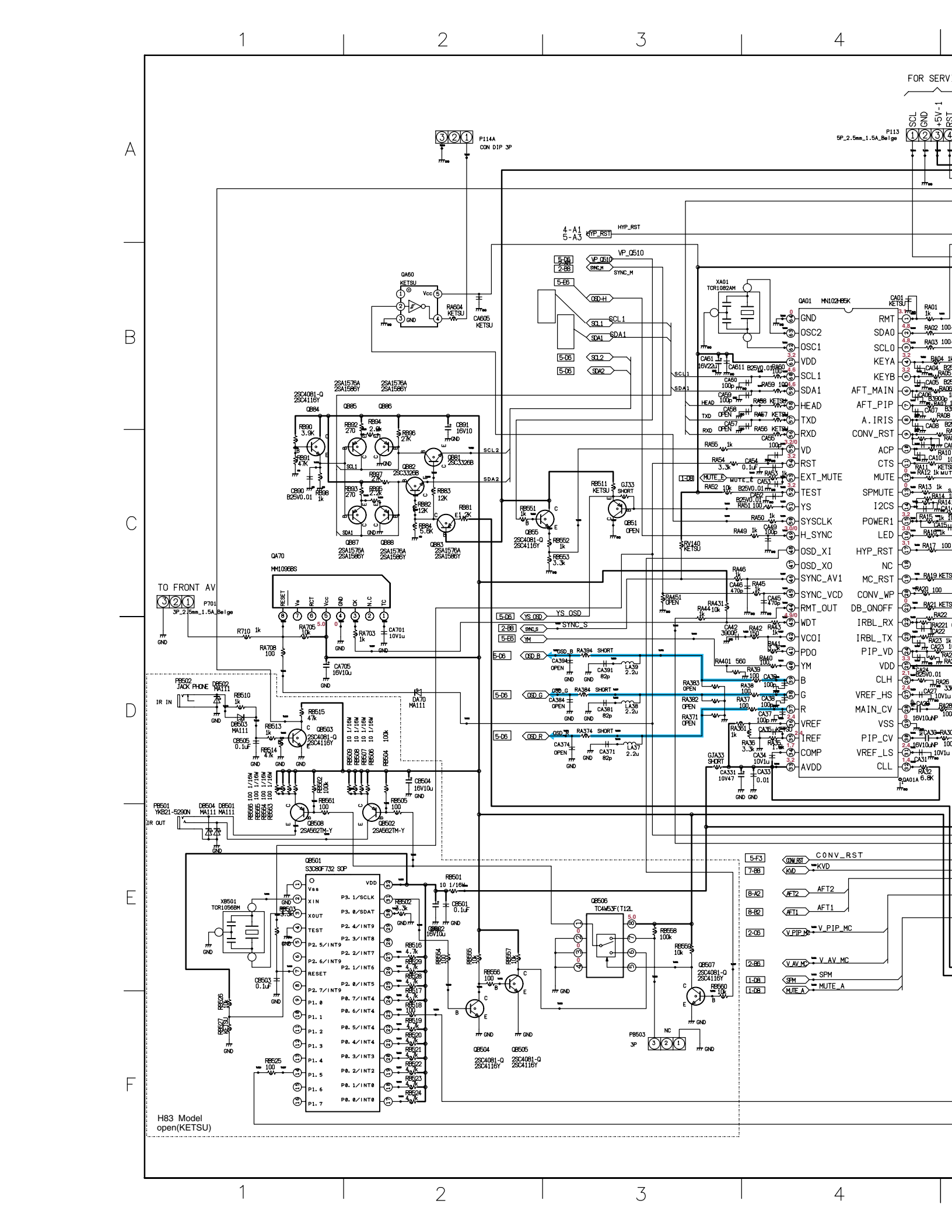
51H83/57H83/65H83
SIGNAL - AV-1
[SHEET-2/9]

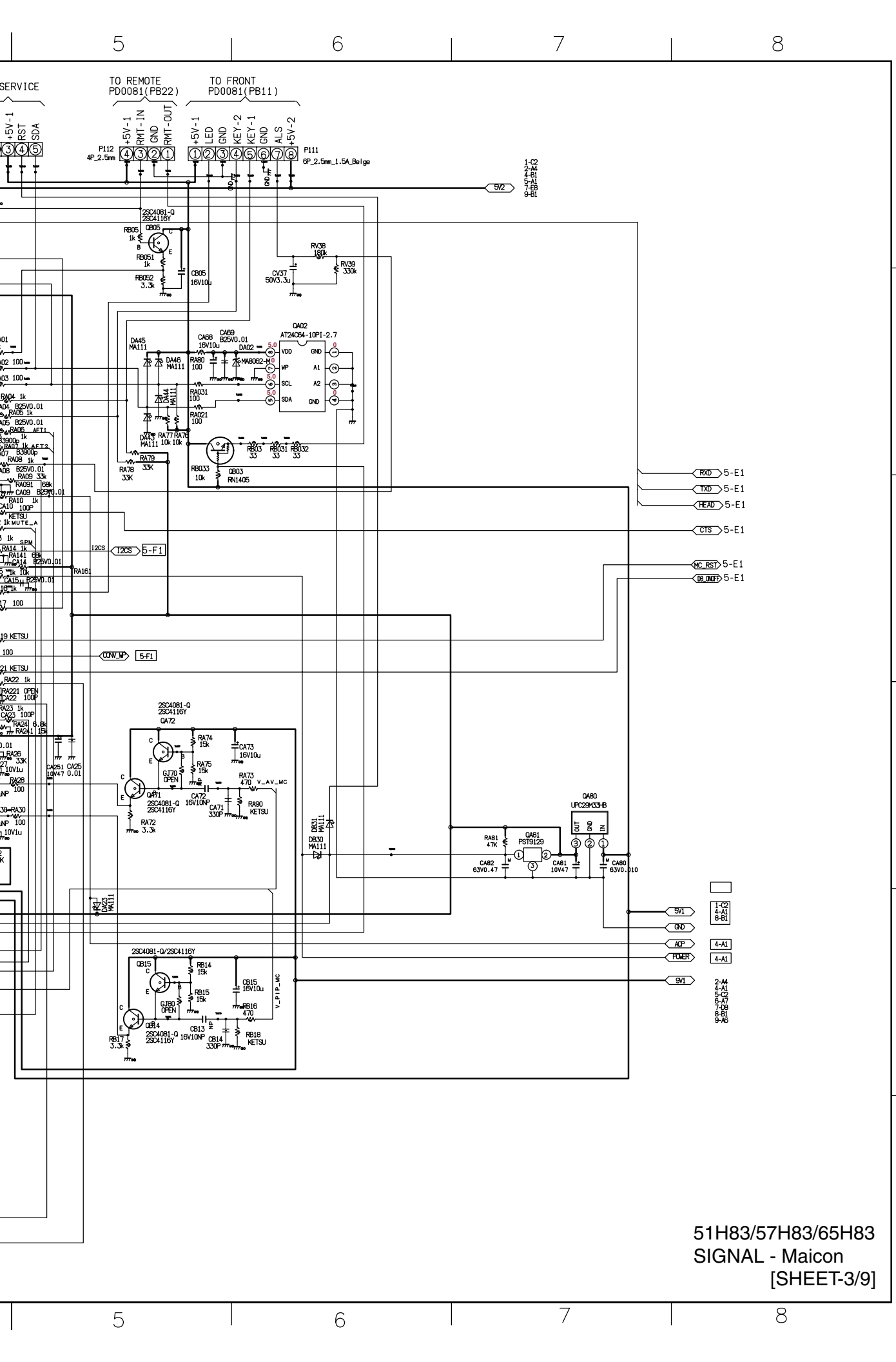

REC-OUT UNIT
P121
PV01
6P JACK
PV02
10P JACK
PV05
8P JACK
PS01 OPEN
PB60
10P_2.5mm_1.5A_Beige
QV01
CXA2069
QV12
MM1505XRE
QS05 MC14052BF
QS06 MC14052BF
QS03 2SC4081-Q
QS04 2SC4081-Q
QS08 2SC3326B
QS07 2SC3326B
QS09 RN2404
LV02 TEM2028A
LV03 TEM2028A
LV13 TRF4100AT
EXT-1
EXT-2
EXT-3 (FRONT)
CS-1
CS-2
HDMI
VARIABLE OUT
MONITOR OUT
DVI(HDMI-1) L
HDMI-2 L
DVI(HDMI-1) R
HDMI-2 R
GJ121 SHORT
GJ122 SHORT
GJ123 SHORT
GJ124 OPEN
GJ114 SHORT
GJ115 OPEN
A_MUTE
GEMS



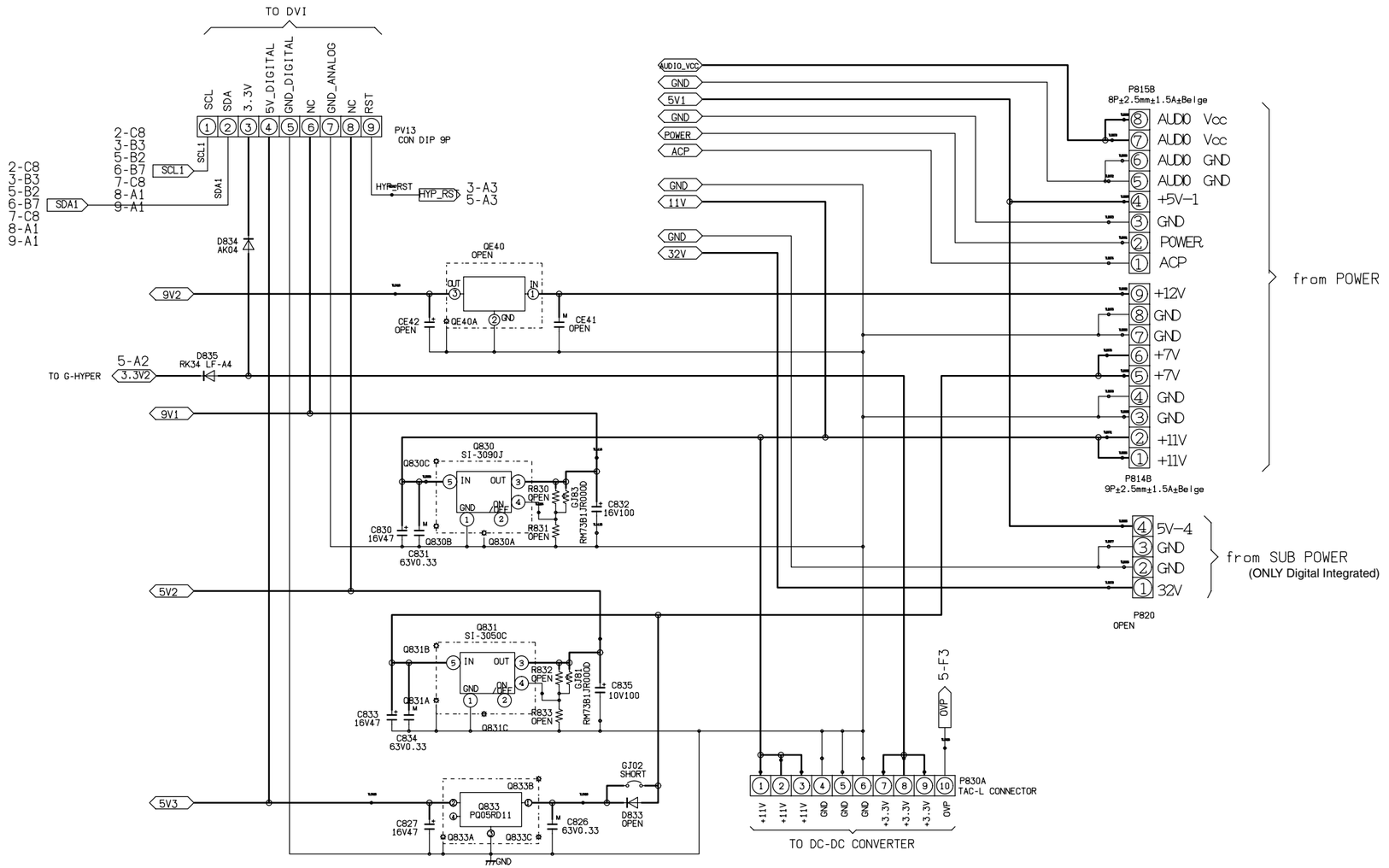
51H83/57H83/65H83
SIGNAL - AV-1
[SHEET-2/9]


FOR SERVICE
TO REMOTE PD0081(PB22)
TO FRONT PD0081(PB11)
SCL GND +5V-1 RST SDA
+5V-1 RMT-IN GND RMT-OUT
+5V-1 LED GND KEY-2 KEY-1 GND ALS +5V-2
P113 5P_2.5mm_1.5A_Beige
P112 4P_2.5mm
P111 6P_2.5mm_1.5A_Beige
P114A CON DIP 3P
TO FRONT AV
P701 3P_2.5mm_1.5A_Beige
IR IN
IR OUT
JACK PHONE
QA01 MN102H85K
XA01 TCR1082AM
QA70 MM1099BS
QA60 KETSU
QA02 AT24C04-10PI-2.7
QA03 MA8002-NS
QA91 2SC4081-Q 2SC4116Y
QA72 2SC4081-Q 2SC4116Y
QB01 2SC4081-Q 2SC4116Y
QB03 RN1405
QB501 S3080F732 SOP
QB502 2SA562TM-Y
QB503 2SC4081-Q 2SC4116Y
QB504 2SC4081-Q 2SC4116Y
QB505 2SC4081-Q 2SC4116Y
QB506 TC4W53F(T12L
QB507 2SC4081-Q 2SC4116Y
QB508 2SA562TM-Y
QB509 2SC4081-Q 2SC4116Y
QB510 2SC4081-Q 2SC4116Y
QB511 KETSU
QA80 UPC29M33HB
QA81 PST9129
XB501 TCR1056BM
RA01 RA02 RA03 RA04 RA05 RA06 RA07 RA08 RA09 RA10 RA11 RA12 RA13 RA14 RA15 RA16 RA17 RA18 RA19 RA20 RA21 RA22 RA23 RA24 RA25 RA26 RA27 RA28 RA29 RA30 RA31 RA32
RA431 RA432 RA433 RA434 RA435 RA436 RA437 RA438 RA439 RA440 RA441 RA442 RA443 RA444 RA445 RA446 RA447 RA448 RA449 RA450 RA451 RA452 RA453 RA454 RA455 RA456 RA457 RA458 RA459 RA460 RA461 RA462 RA463 RA464 RA465 RA466 RA467 RA468 RA469 RA470 RA471 RA472 RA473 RA474 RA475 RA476 RA477 RA478 RA479
RA501 RA502 RA503 RA504 RA505 RA506 RA507 RA508 RA509 RA510 RA511 RA512 RA513 RA514 RA515 RA516 RA517 RA518 RA519 RA520 RA521 RA522 RA523 RA524 RA525 RA526 RA527 RA528 RA529 RA530 RA531 RA532 RA533 RA534 RA535 RA536 RA537 RA538 RA539 RA540 RA541 RA542 RA543 RA544 RA545 RA546 RA547 RA548 RA549 RA550 RA551 RA552 RA553 RA554 RA555 RA556 RA557 RA558 RA559 RA560 RA561 RA562 RA563 RA564 RA565 RA566 RA567 RA568 RA569 RA570 RA571 RA572 RA573 RA574 RA575 RA576 RA577 RA578 RA579 RA580 RA581 RA582 RA583 RA584 RA585 RA586 RA587 RA588 RA589 RA590 RA591 RA592 RA593 RA594 RA595 RA596 RA597 RA598 RA599 RA600 RA601 RA602 RA603 RA604 RA605 RA606 RA607 RA608 RA609 RA610 RA611 RA612 RA613 RA614 RA615 RA616 RA617 RA618 RA619 RA620 RA621 RA622 RA623 RA624 RA625 RA626 RA627 RA628 RA629 RA630 RA631 RA632 RA633 RA634 RA635 RA636 RA637 RA638 RA639 RA640 RA641 RA642 RA643 RA644 RA645 RA646 RA647 RA648 RA649 RA650 RA651 RA652 RA653 RA654 RA655 RA656 RA657 RA658 RA659 RA660 RA661 RA662 RA663 RA664 RA665 RA666 RA667 RA668 RA669 RA670 RA671 RA672 RA673 RA674 RA675 RA676 RA677 RA678 RA679 RA680 RA681 RA682 RA683 RA684 RA685 RA686 RA687 RA688 RA689 RA690 RA691 RA692 RA693 RA694 RA695 RA696 RA697 RA698 RA699 RA700 RA701 RA702 RA703 RA704 RA705 RA706 RA707 RA708 RA709 RA710
CA01 CA02 CA03 CA04 CA05 CA06 CA07 CA08 CA09 CA10 CA11 CA12 CA13 CA14 CA15 CA16 CA17 CA18 CA19 CA20 CA21 CA22 CA23 CA24 CA25 CA26 CA27 CA28 CA29 CA30 CA31 CA32 CA33 CA34 CA35 CA36 CA37 CA38 CA39 CA40 CA41 CA42 CA43 CA44 CA45 CA46 CA47 CA48 CA49 CA50 CA51 CA52 CA53 CA54 CA55 CA56 CA57 CA58 CA59 CA60 CA61 CA62 CA63 CA64 CA65 CA66 CA67 CA68 CA69 CA70 CA71 CA72 CA73 CA74 CA75 CA76 CA77 CA78 CA79 CA80 CA81 CA82 CA83 CA84 CA85 CA86 CA87 CA88 CA89 CA90 CA91 CA92 CA93 CA94 CA95 CA96 CA97 CA98 CA99 CA100 CA101 CA102 CA103 CA104 CA105 CA106 CA107 CA108 CA109 CA110 CA111 CA112 CA113 CA114 CA115 CA116 CA117 CA118 CA119 CA120 CA121 CA122 CA123 CA124 CA125 CA126 CA127 CA128 CA129 CA130 CA131 CA132 CA133 CA134 CA135 CA136 CA137 CA138 CA139 CA140 CA141 CA142 CA143 CA144 CA145 CA146 CA147 CA148 CA149 CA150 CA151 CA152 CA153 CA154 CA155 CA156 CA157 CA158 CA159 CA160 CA161 CA162 CA163 CA164 CA165 CA166 CA167 CA168 CA169 CA170 CA171 CA172 CA173 CA174 CA175 CA176 CA177 CA178 CA179 CA180 CA181 CA182 CA183 CA184 CA185 CA186 CA187 CA188 CA189 CA190 CA191 CA192 CA193 CA194 CA195 CA196 CA197 CA198 CA199 CA200 CA201 CA202 CA203 CA204 CA205 CA206 CA207 CA208 CA209 CA210 CA211 CA212 CA213 CA214 CA215 CA216 CA217 CA218 CA219 CA220 CA221 CA222 CA223 CA224 CA225 CA226 CA227 CA228 CA229 CA230 CA231 CA232 CA233 CA234 CA235 CA236 CA237 CA238 CA239 CA240 CA241 CA242 CA243 CA244 CA245 CA246 CA247 CA248 CA249 CA250 CA251 CA252 CA253 CA254 CA255 CA256 CA257 CA258 CA259 CA260 CA261 CA262 CA263 CA264 CA265 CA266 CA267 CA268 CA269 CA270 CA271 CA272 CA273 CA274 CA275 CA276 CA277 CA278 CA279 CA280 CA281 CA282 CA283 CA284 CA285 CA286 CA287 CA288 CA289 CA290 CA291 CA292 CA293 CA294 CA295 CA296 CA297 CA298 CA299 CA300 CA301 CA302 CA303 CA304 CA305 CA306 CA307 CA308 CA309 CA310 CA311 CA312 CA313 CA314 CA315 CA316 CA317 CA318 CA319 CA320 CA321 CA322 CA323 CA324 CA325 CA326 CA327 CA328 CA329 CA330 CA331 CA332 CA333 CA334 CA335 CA336 CA337 CA338 CA339 CA340 CA341 CA342 CA343 CA344 CA345 CA346 CA347 CA348 CA349 CA350 CA351 CA352 CA353 CA354 CA355 CA356 CA357 CA358 CA359 CA360 CA361 CA362 CA363 CA364 CA365 CA366 CA367 CA368 CA369 CA370 CA371 CA372 CA373 CA374 CA375 CA376 CA377 CA378 CA379 CA380 CA381 CA382 CA383 CA384 CA385 CA386 CA387 CA388 CA389 CA390 CA391 CA392 CA393 CA394 CA395 CA396 CA397 CA398 CA399 CA400 CA401 CA402 CA403 CA404 CA405 CA406 CA407 CA408 CA409 CA410 CA411 CA412 CA413 CA414 CA415 CA416 CA417 CA418 CA419 CA420 CA421 CA422 CA423 CA424 CA425 CA426 CA427 CA428 CA429 CA430 CA431 CA432 CA433 CA434 CA435 CA436 CA437 CA438 CA439 CA440 CA441 CA442 CA443 CA444 CA445 CA446 CA447 CA448 CA449 CA450 CA451 CA452 CA453 CA454 CA455 CA456 CA457 CA458 CA459 CA460 CA461 CA462 CA463 CA464 CA465 CA466 CA467 CA468 CA469 CA470 CA471 CA472 CA473 CA474 CA475 CA476 CA477 CA478 CA479 CA480 CA481 CA482 CA483 CA484 CA485 CA486 CA487 CA488 CA489 CA490 CA491 CA492 CA493 CA494 CA495 CA496 CA497 CA498 CA499 CA500 CA501 CA502 CA503 CA504 CA505 CA506 CA507 CA508 CA509 CA510 CA511 CA512 CA513 CA514 CA515 CA516 CA517 CA518 CA519 CA520 CA521 CA522 CA523 CA524 CA525 CA526 CA527 CA528 CA529 CA530 CA531 CA532 CA533 CA534 CA535 CA536 CA537 CA538 CA539 CA540 CA541 CA542 CA543 CA544 CA545 CA546 CA547 CA548 CA549 CA550 CA551 CA552 CA553 CA554 CA555 CA556 CA557 CA558 CA559 CA560 CA561 CA562 CA563 CA564 CA565 CA566 CA567 CA568 CA569 CA570 CA571 CA572 CA573 CA574 CA575 CA576 CA577 CA578 CA579 CA580 CA581 CA582 CA583 CA584 CA585 CA586 CA587 CA588 CA589 CA590 CA591 CA592 CA593 CA594 CA595 CA596 CA597 CA598 CA599 CA600 CA601 CA602 CA603 CA604 CA605 CA606 CA607 CA608 CA609 CA610 CA611 CA612 CA613 CA614 CA615 CA616 CA617 CA618 CA619 CA620 CA621 CA622 CA623 CA624 CA625 CA626 CA627 CA628 CA629 CA630 CA631 CA632 CA633 CA634 CA635 CA636 CA637 CA638 CA639 CA640 CA641 CA642 CA643 CA644 CA645 CA646 CA647 CA648 CA649 CA650 CA651 CA652 CA653 CA654 CA655 CA656 CA657 CA658 CA659 CA660 CA661 CA662 CA663 CA664 CA665 CA666 CA667 CA668 CA669 CA670 CA671 CA672 CA673 CA674 CA675 CA676 CA677 CA678 CA679 CA680 CA681 CA682 CA683 CA684 CA685 CA686 CA687 CA688 CA689 CA690 CA691 CA692 CA693 CA694 CA695 CA696 CA697 CA698 CA699 CA700 CA701 CA702 CA703 CA704 CA705 CA706 CA707 CA708 CA709 CA710
RB01 RB02 RB03 RB04 RB05 RB06 RB07 RB08 RB09 RB10 RB11 RB12 RB13 RB14 RB15 RB16 RB17 RB18 RB19 RB20 RB21 RB22 RB23 RB24 RB25 RB26 RB27 RB28 RB29 RB30 RB31 RB32 RB33 RB34 RB35 RB36 RB37 RB38 RB39 RB40 RB41 RB42 RB43 RB44 RB45 RB46 RB47 RB48 RB49 RB50 RB51 RB52 RB53 RB54 RB55 RB56 RB57 RB58 RB59 RB60 RB61 RB62 RB63 RB64 RB65 RB66 RB67 RB68 RB69 RB70 RB71 RB72 RB73 RB74 RB75 RB76 RB77 RB78 RB79 RB80 RB81 RB82 RB83 RB84 RB85 RB86 RB87 RB88 RB89 RB90 RB91 RB92 RB93 RB94 RB95 RB96 RB97 RB98 RB99 RB100 RB101 RB102 RB103 RB104 RB105 RB106 RB107 RB108 RB109 RB110 RB111 RB112 RB113 RB114 RB115 RB116 RB117 RB118 RB119 RB120 RB121 RB122 RB123 RB124 RB125 RB126 RB127 RB128 RB129 RB130 RB131 RB132 RB133 RB134 RB135 RB136 RB137 RB138 RB139 RB140 RB141 RB142 RB143 RB144 RB145 RB146 RB147 RB148 RB149 RB150 RB151 RB152 RB153 RB154 RB155 RB156 RB157 RB158 RB159 RB160 RB161 RB162 RB163 RB164 RB165 RB166 RB167 RB168 RB169 RB170 RB171 RB172 RB173 RB174 RB175 RB176 RB177 RB178 RB179 RB180 RB181 RB182 RB183 RB184 RB185 RB186 RB187 RB188 RB189 RB190 RB191 RB192 RB193 RB194 RB195 RB196 RB197 RB198 RB199 RB200 RB201 RB202 RB203 RB204 RB205 RB206 RB207 RB208 RB209 RB210 RB211 RB212 RB213 RB214 RB215 RB216 RB217 RB218 RB219 RB220 RB221 RB222 RB223 RB224 RB225 RB226 RB227 RB228 RB229 RB230 RB231 RB232 RB233 RB234 RB235 RB236 RB237 RB238 RB239 RB240 RB241 RB242 RB243 RB244 RB245 RB246 RB247 RB248 RB249 RB250 RB251 RB252 RB253 RB254 RB255 RB256 RB257 RB258 RB259 RB260 RB261 RB262 RB263 RB264 RB265 RB266 RB267 RB268 RB269 RB270 RB271 RB272 RB273 RB274 RB275 RB276 RB277 RB278 RB279 RB280 RB281 RB282 RB283 RB284 RB285 RB286 RB287 RB288 RB289 RB290 RB291 RB292 RB293 RB294 RB295 RB296 RB297 RB298 RB299 RB300 RB301 RB302 RB303 RB304 RB305 RB306 RB307 RB308 RB309 RB310 RB311 RB312 RB313 RB314 RB315 RB316 RB317 RB318 RB319 RB320 RB321 RB322 RB323 RB324 RB325 RB326 RB327 RB328 RB329 RB330 RB331 RB332 RB333 RB334 RB335 RB336 RB337 RB338 RB339 RB340 RB341 RB342 RB343 RB344 RB345 RB346 RB347 RB348 RB349 RB350 RB351 RB352 RB353 RB354 RB355 RB356 RB357 RB358 RB359 RB360 RB361 RB362 RB363 RB364 RB365 RB366 RB367 RB368 RB369 RB370 RB371 RB372 RB373 RB374 RB375 RB376 RB377 RB378 RB379 RB380 RB381 RB382 RB383 RB384 RB385 RB386 RB387 RB388 RB389 RB390 RB391 RB392 RB393 RB394 RB395 RB396 RB397 RB398 RB399 RB400 RB401 RB402 RB403 RB404 RB405 RB406 RB407 RB408 RB409 RB410 RB411 RB412 RB413 RB414 RB415 RB416 RB417 RB418 RB419 RB420 RB421 RB422 RB423 RB424 RB425 RB426 RB427 RB428 RB429 RB430 RB431 RB432 RB433 RB434 RB435 RB436 RB437 RB438 RB439 RB440 RB441 RB442 RB443 RB444 RB445 RB446 RB447 RB448 RB449 RB450 RB451 RB452 RB453 RB454 RB455 RB456 RB457 RB458 RB459 RB460 RB461 RB462 RB463 RB464 RB465 RB466 RB467 RB468 RB469 RB470 RB471 RB472 RB473 RB474 RB475 RB476 RB477 RB478 RB479 RB480 RB481 RB482 RB483 RB484 RB485 RB486 RB487 RB488 RB489 RB490 RB491 RB492 RB493 RB494 RB495 RB496 RB497 RB498 RB499 RB500 RB501 RB502 RB503 RB504 RB505 RB506 RB507 RB508 RB509 RB510 RB511 RB512 RB513 RB514 RB515 RB516 RB517 RB518 RB519 RB520 RB521 RB522 RB523 RB524 RB525 RB526 RB527 RB528 RB529 RB530 RB531 RB532 RB533 RB534 RB535 RB536 RB537 RB538 RB539 RB540 RB541 RB542 RB543 RB544 RB545 RB546 RB547 RB548 RB549 RB550 RB551 RB552 RB553 RB554 RB555 RB556 RB557 RB558 RB559 RB560 RB561 RB562 RB563 RB564 RB565 RB566 RB567 RB568 RB569 RB570 RB571 RB572 RB573 RB574 RB575 RB576 RB577 RB578 RB579 RB580 RB581 RB582 RB583 RB584 RB585 RB586 RB587 RB588 RB589 RB590 RB591 RB592 RB593 RB594 RB595 RB596 RB597 RB598 RB599 RB600 RB601 RB602 RB603 RB604 RB605 RB606 RB607 RB608 RB609 RB610 RB611 RB612 RB613 RB614 RB615 RB616 RB617 RB618 RB619 RB620 RB621 RB622 RB623 RB624 RB625 RB626 RB627 RB628 RB629 RB630 RB631 RB632 RB633 RB634 RB635 RB636 RB637 RB638 RB639 RB640 RB641 RB642 RB643 RB644 RB645 RB646 RB647 RB648 RB649 RB650 RB651 RB652 RB653 RB654 RB655 RB656 RB657 RB658 RB659 RB660 RB661 RB662 RB663 RB664 RB665 RB666 RB667 RB668 RB669 RB670 RB671 RB672 RB673 RB674 RB675 RB676 RB677 RB678 RB679 RB680 RB681 RB682 RB683 RB684 RB685 RB686 RB687 RB688 RB689 RB690 RB691 RB692 RB693 RB694 RB695 RB696 RB697 RB698 RB699 RB700 RB701 RB702 RB703 RB704 RB705 RB706 RB707 RB708 RB709 RB710
RXD TXD HEAD CTS MC_RST DB_ONOFF
SCL1 SDA1 SCL2 SDA2
VP_Q510 SYNC_M HSD-H SCL1 SDA1 SCL2 SDA2
HYP_RST
YS_OSD SYNC_S YM OSD_B OSD_G OSD_R
GND OSCI OSCO VDD SCL1 SDA1 HEAD TXD RXD VD RST EXT_MUTE TEST YS SYSCLK H_SYNC OSD_XI OSD_XO SYNC_AV1 SYNC_VCD RMT_OUT WDT VCOI PDO YM B G R VREF IREF COMP AVDD
RMT SDA0 SCL0 KEYA KEYB AFT_MAIN AFT_PIP A.IRIS CONV_RST ACP CTS MUTE SPMUTE I2CS POWER1 LED HYP_RST NC MC_RST CONV_WP DB_ONOFF IRBL_RX IRBL_TX PIP_VD VDD CLH VREF_HS MAIN_CV VSS PIP_CV VREF_LS CLL
CONV_RST KVD AFT2 AFT1 V_PIP_MC V_AV_MC SPM MUTE_A
5V2 5V1 GND ACP POWER 9V1
H83 Model
open(KETSU)
51H83/57H83/65H83
SIGNAL - Maicon
[SHEET-3/9]

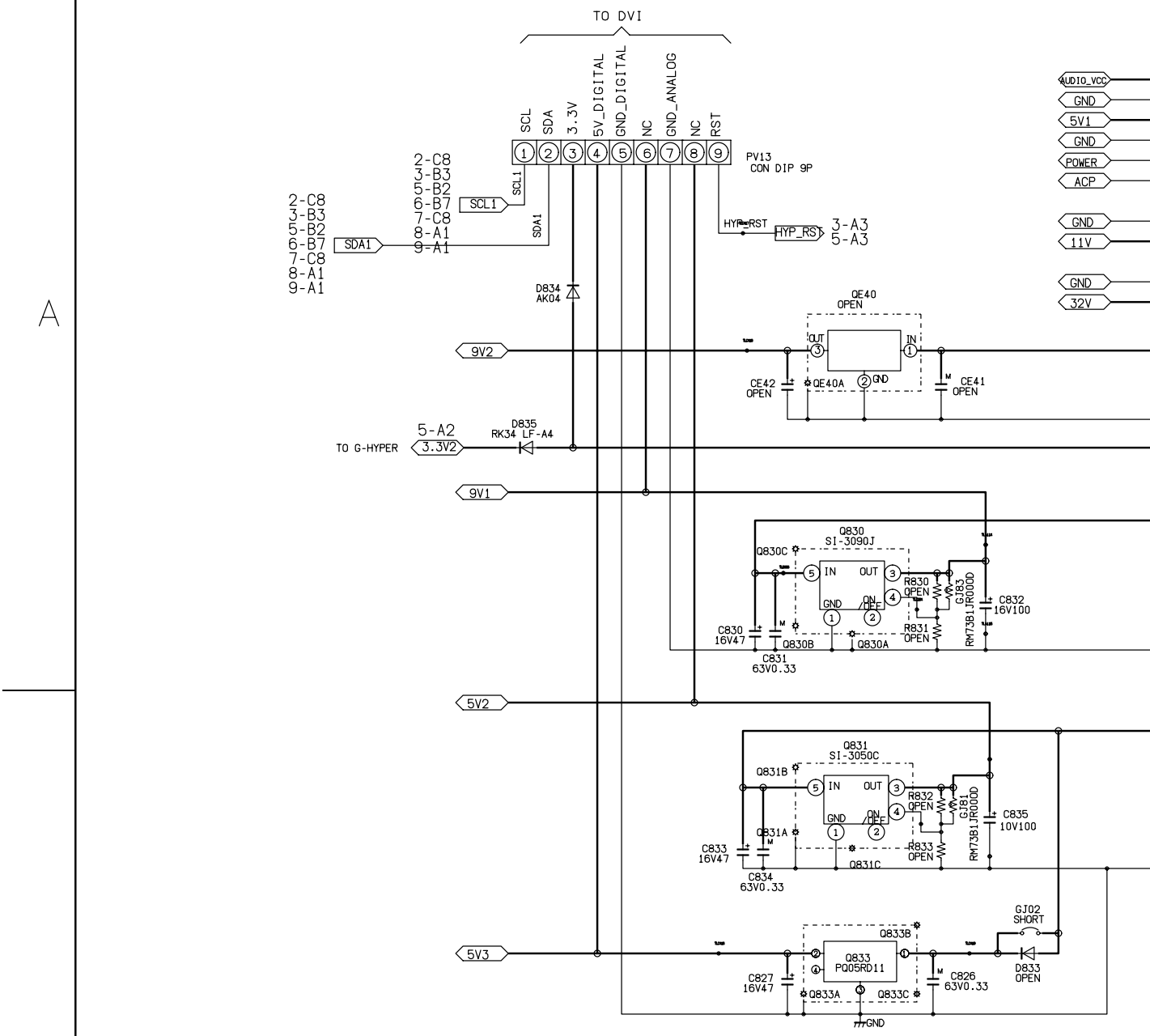

FOR SERV
P114A
CON DIP 3P
P113
5P_2.5mm_1.5A_Beige
SCL
GND
+5V-1
RST
HYP_RST
4-A1
5-A3
VP_Q510
SYNC_M
OSD-H
SCL1
SDA1
SCL2
SDA2
QA60
KETSU
RA604
KETSU
CA605
KETSU
XA01
TCR1082AM
QA01 MN102H85K
GND
OSC2
OSC1
VDD
SCL1
SDA1
HEAD
TXD
RXD
VD
RST
EXT_MUTE
TEST
YS
SYSCLK
H_SYNC
OSD_XI
OSD_XO
SYNC_AV1
SYNC_VCD
RMT_OUT
WDT
VCOI
PDO
YM
B
G
R
VREF
IREF
COMP
AVDD
RMT
SDA0
SCL0
KEYA
KEYB
AFT_MAIN
AFT_PIP
A.IRIS
CONV_RST
ACP
CTS
MUTE
SPMUTE
I2CS
POWER1
LED
HYP_RST
NC
MC_RST
CONV_WP
DB_ONOFF
IRBL_RX
IRBL_TX
PIP_VD
VDD
CLH
VREF_HS
MAIN_CV
VSS
PIP_CV
VREF_LS
CLL
2SA1576A
2SA1586Y
2SC4081-Q
2SC4116Y
2SC3326B
QB84
QB85
QB86
QB87
QB88
QB81
QB82
QB83
QB851
QB852
QB855
QB856
QB511
GJ33
SHORT
RV140
KETSU
TO FRONT AV
P701
3P_2.5mm_1.5A_Beige
QA70
MM1096BS
RESET
Vs
RCT
Vcc
GND
CK
H.C
TC
YS_OSD
SYNC_S
YM
OSD_B
OSD_G
OSD_R
PB502
JACK PHONE
DB502
MA111
IR IN
DB503
MA111
QB503
2SC4081-Q
2SC4116Y
DA70
MA111
PB501
YKB21-5290N
DB504
DB501
IR OUT
QB508
2SA562TM-Y
QB502
2SA562TM-Y
QB501
S3C80F732 SOP
XB501
TCR1056BM
QB506
TC4W53F(T12L
QB507
QB504
QB505
PB503
CONV_RST
KVD
AFT2
AFT1
V_PIP_MC
V_AV_MC
SPM
MUTE_A
H83 Model
open(KETSU)

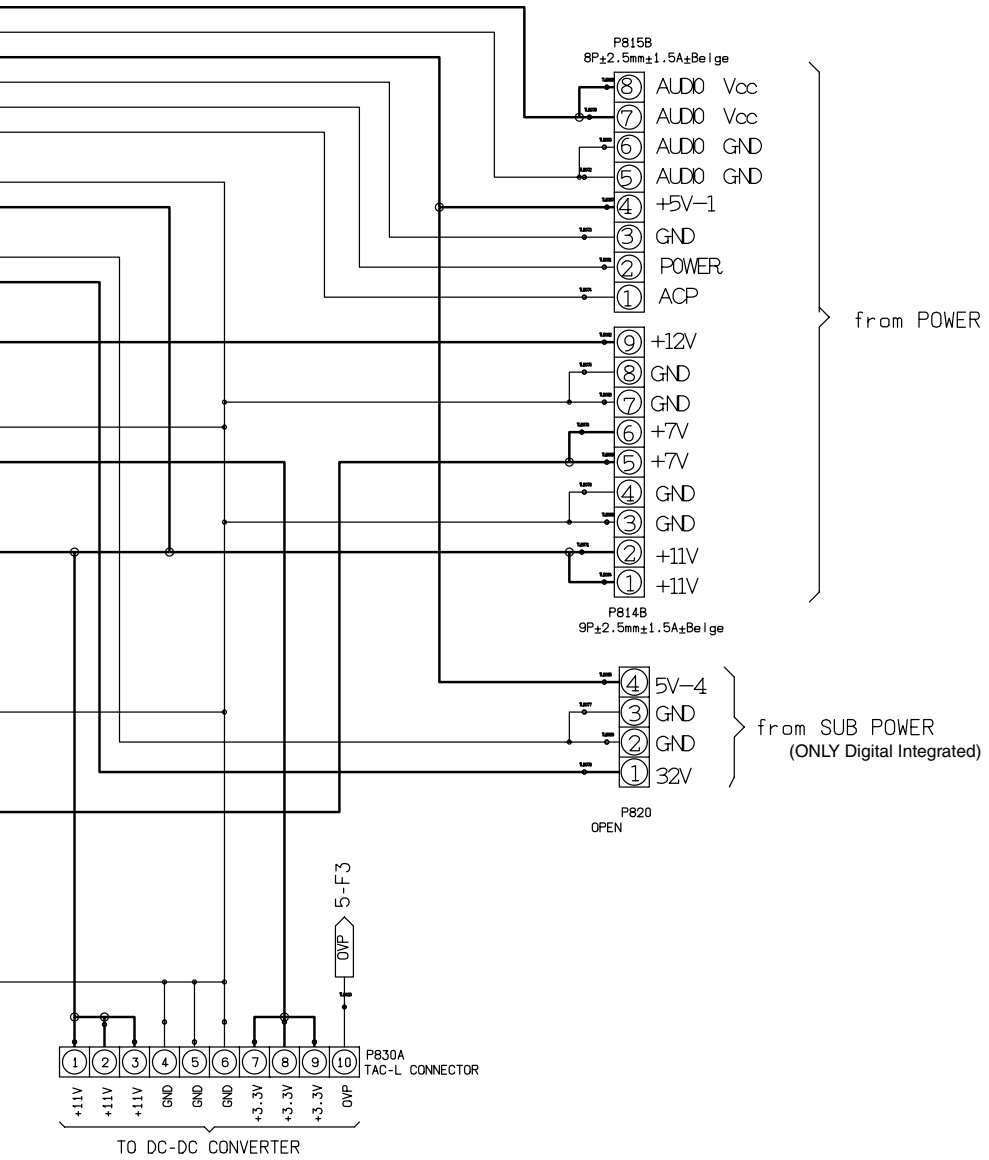


51H83/57H83/65H83
SIGNAL - Maicon
[SHEET-3/9]



51H83/57H83/65H83
SIGNAL - REGULATOR
[SHEET-4/9]


TO DVI
SCL
SDA
3.3V
5V_DIGITAL
GND_DIGITAL
NC
GND_ANALOG
NC
RST
PV13
CON DIP 9P
2-C8
3-B3
5-B2
6-B7
7-C8
8-A1
9-A1
SCL1
SDA1
HYP_RST
3-A3
5-A3
AUDIO_VCC
GND
5V1
GND
POWER
ACP
GND
11V
GND
32V
D834
AK04
QE40
OPEN
9V2
CE42
OPEN
QE40A
CE41
OPEN
5-A2
TO G-HYPER
3.3V2
D835
RK34 LF-A4
9V1
Q830
SI-3090J
Q830C
R830
OPEN
GJ83
RM73B1JR000D
C832
16V100
C830
16V47
Q830B
Q830A
R831
OPEN
C831
63V0.33
5V2
Q831
SI-3050C
Q831B
R832
OPEN
GJ81
RM73B1JR000D
C835
10V100
Q831A
C833
16V47
R833
OPEN
Q831C
C834
63V0.33
GJ02
SHORT
Q833B
Q833
PQ05RD11
D833
OPEN
5V3
C827
16V47
Q833A
Q833C
C826
63V0.33
GND



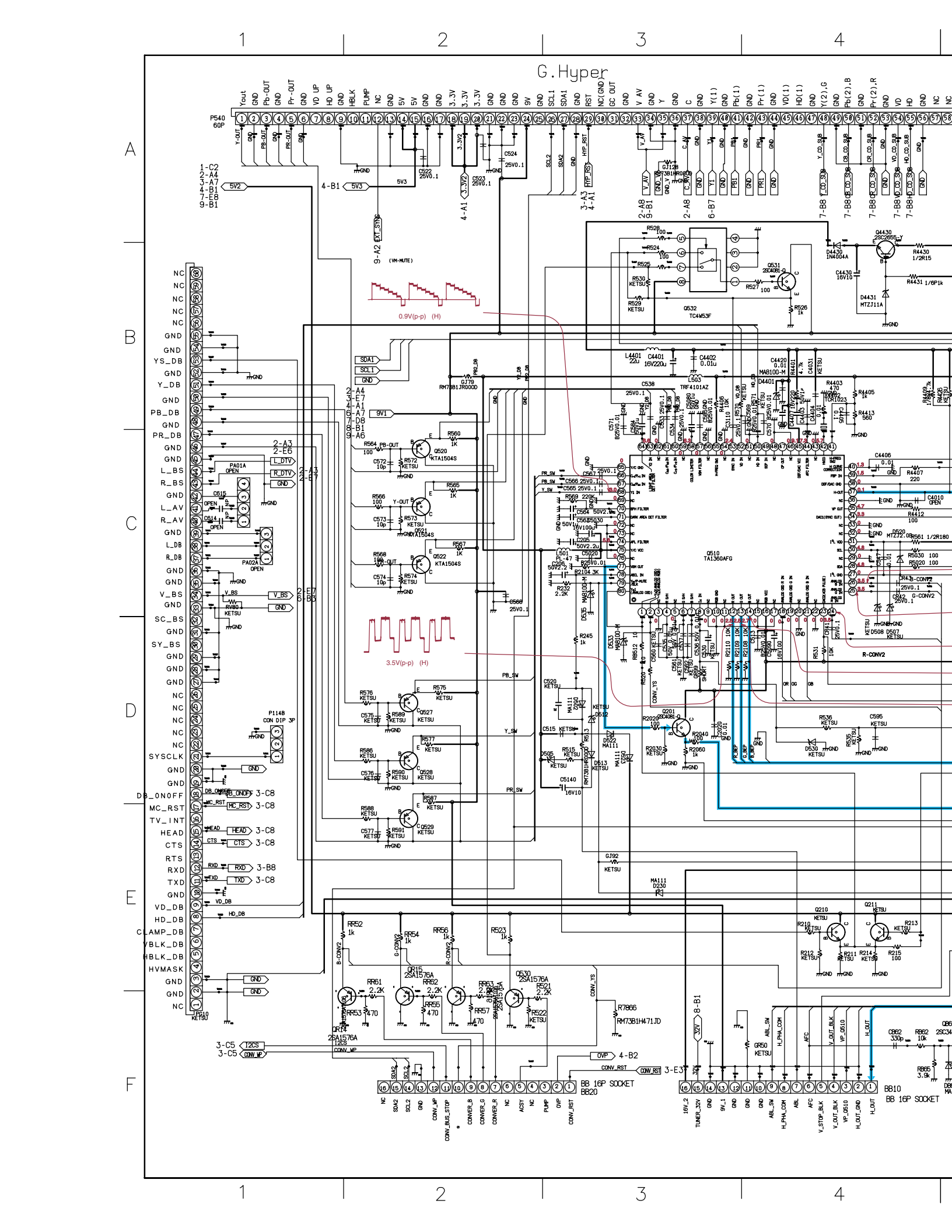
A

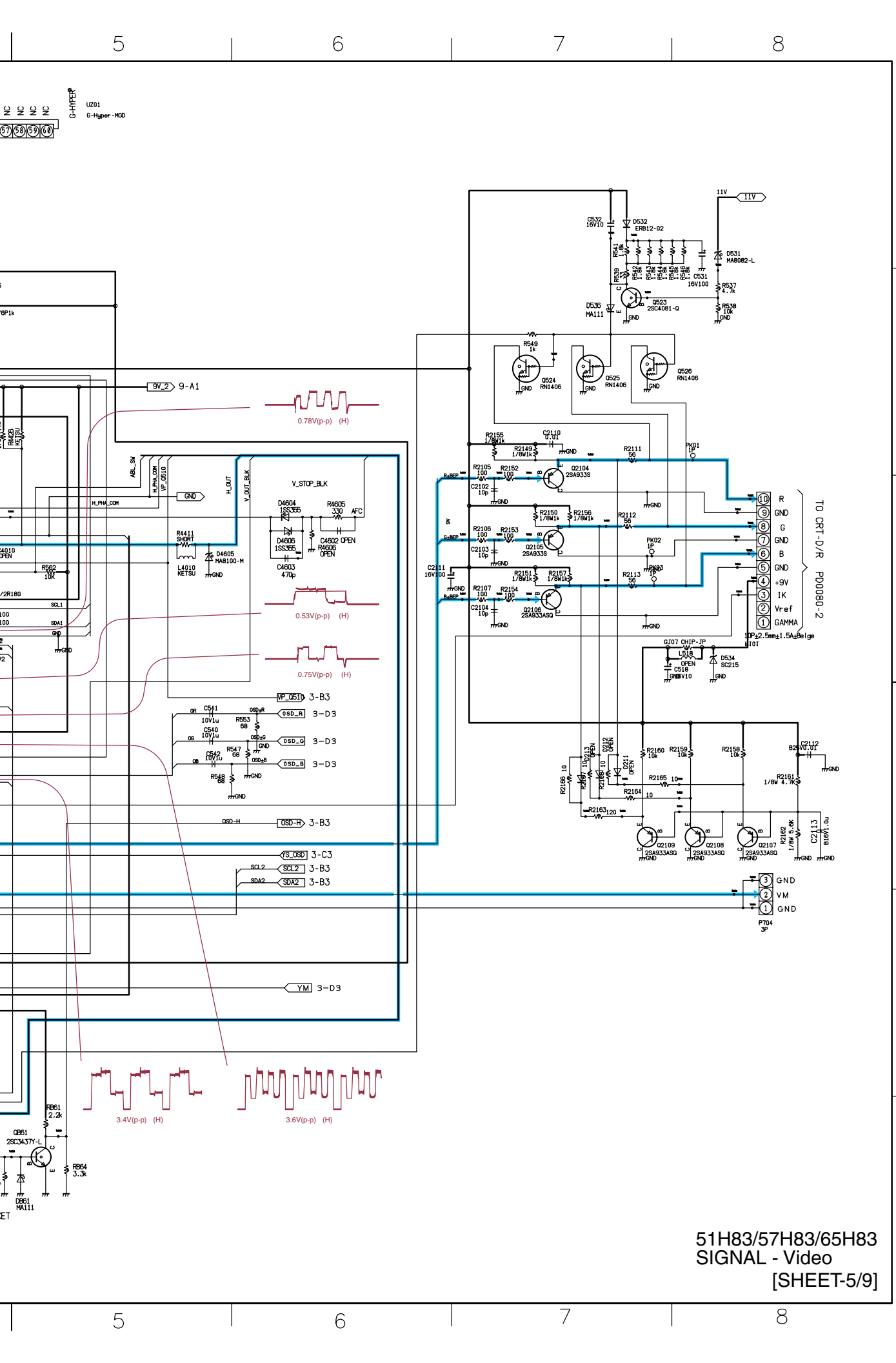
B

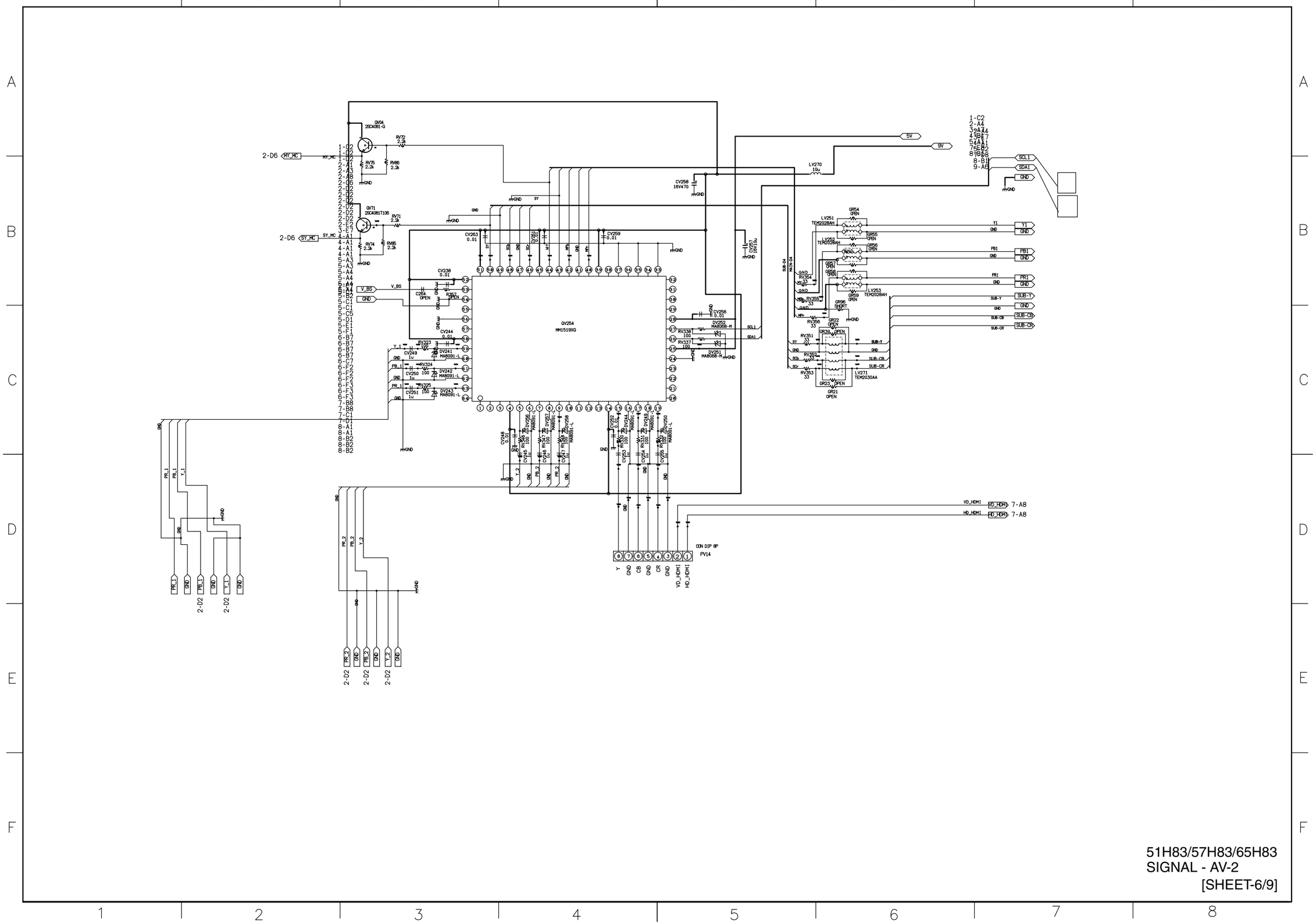
51H83/57H83/65H83
SIGNAL - REGULATOR
[SHEET-4/9]

G.Hyper

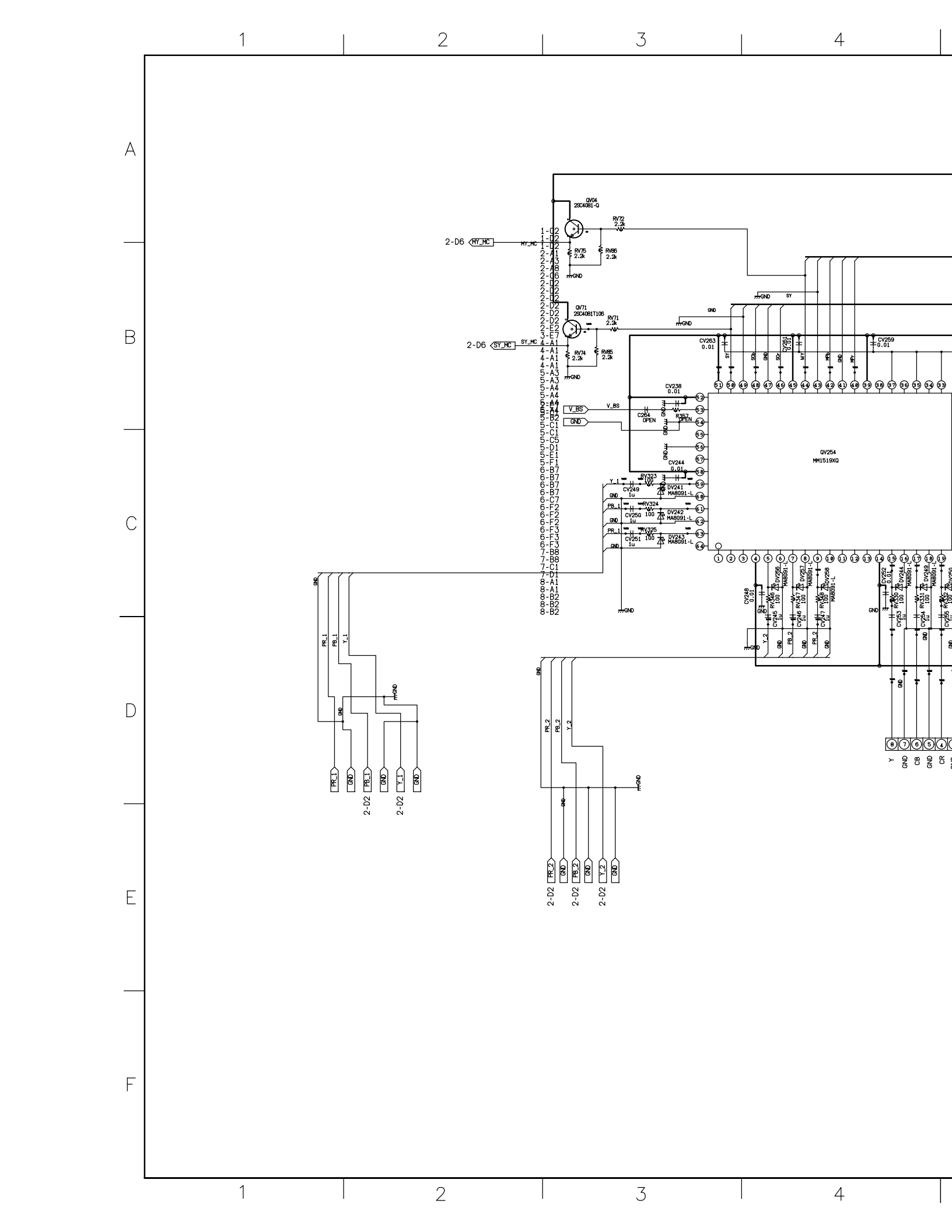
51H83/57H83/65H83
SIGNAL - Video
[SHEET-5/9]

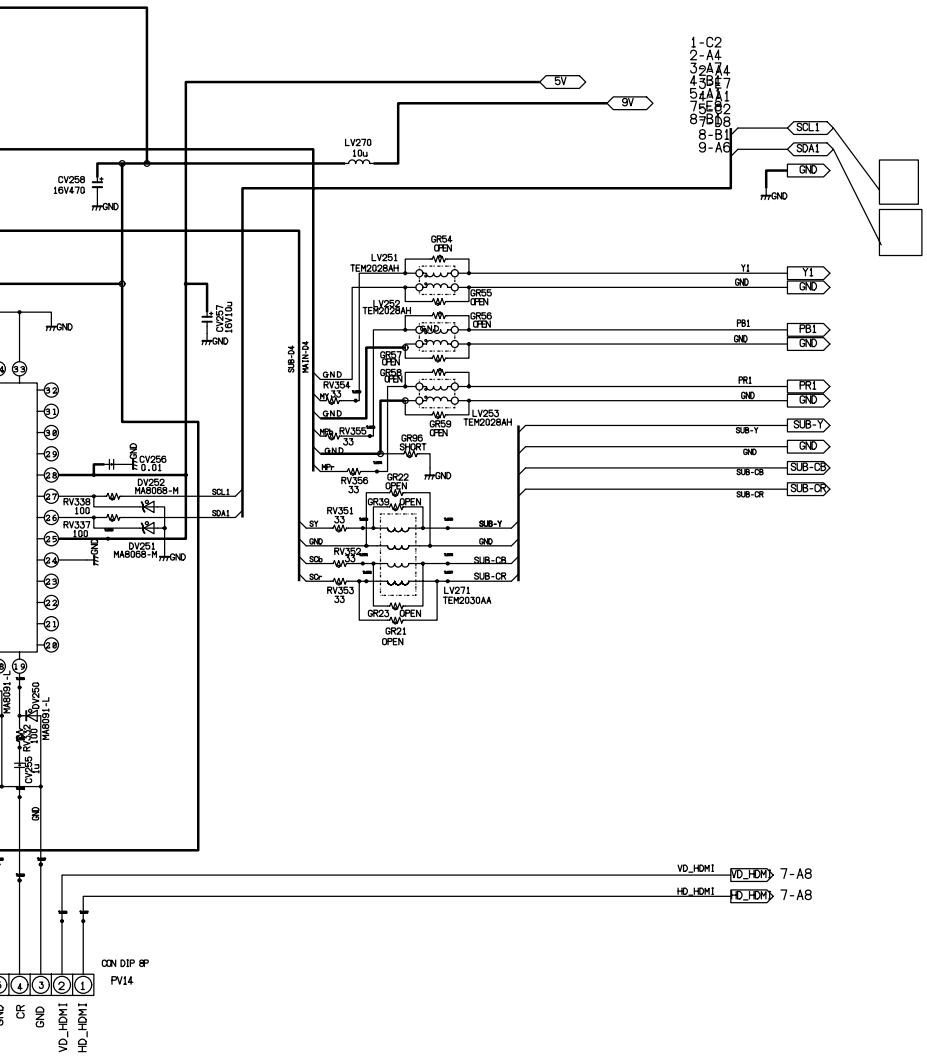

G.Hyper
P540 60P
P510 KETSU
P114B CON DIP 3P
PA01A OPEN
PA02A OPEN
BB 16P SOCKET BB20
BB 16P SOCKET BB10
Q510 TA1360AFG
Q532 TC4W53F
R-CONV2
G-CONV2
B-CONV2
(VM-MUTE)
0.9V(p-p) (H)
3.5V(p-p) (H)


5
6
7
8
A
B
C
D
E
F
UZ01
G-Hyper-MOD
C-HYPER
NC
57
58
59
60
9V_2
9-A1
0.78V(p-p) (H)
0.53V(p-p) (H)
0.75V(p-p) (H)
3.4V(p-p) (H)
3.6V(p-p) (H)
V_STOP_BLK
H_PHA_COM
H_OUT
V_OUT_BLK
ABL_SW
VP_Q510
OSD_R
OSD_G
OSD_B
OSD-H
YS_OSD
SCL2
SDA2
YM
3-B3
3-D3
3-C3
11V
GND
TO CRT-D/R PD0080-2
R
G
B
+9V
IK
Vref
GAMMA
P704
3P
51H83/57H83/65H83
SIGNAL - Video
[SHEET-5/9]



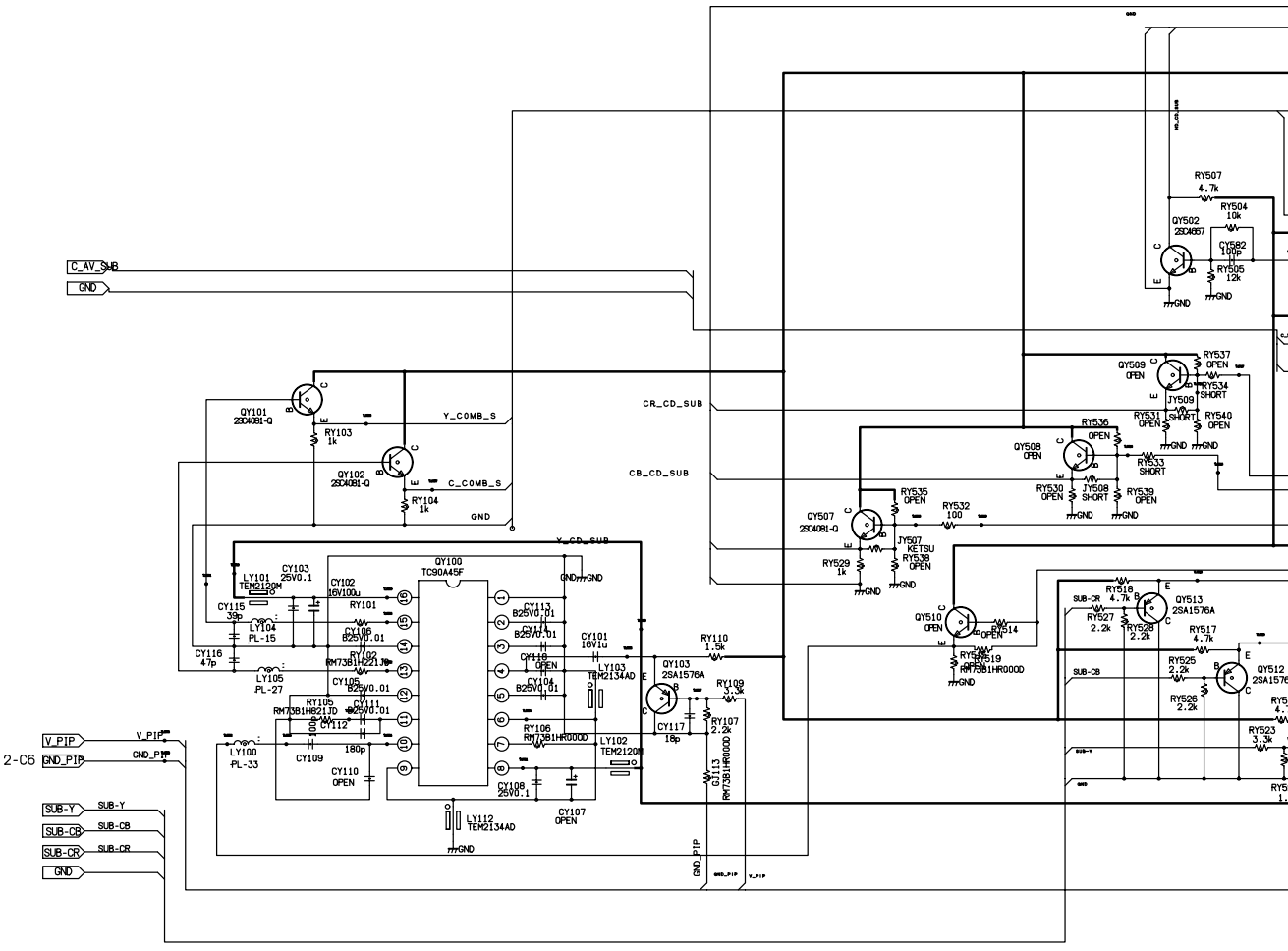
51H83/57H83/65H83
SIGNAL - AV-2
[SHEET-6/9]

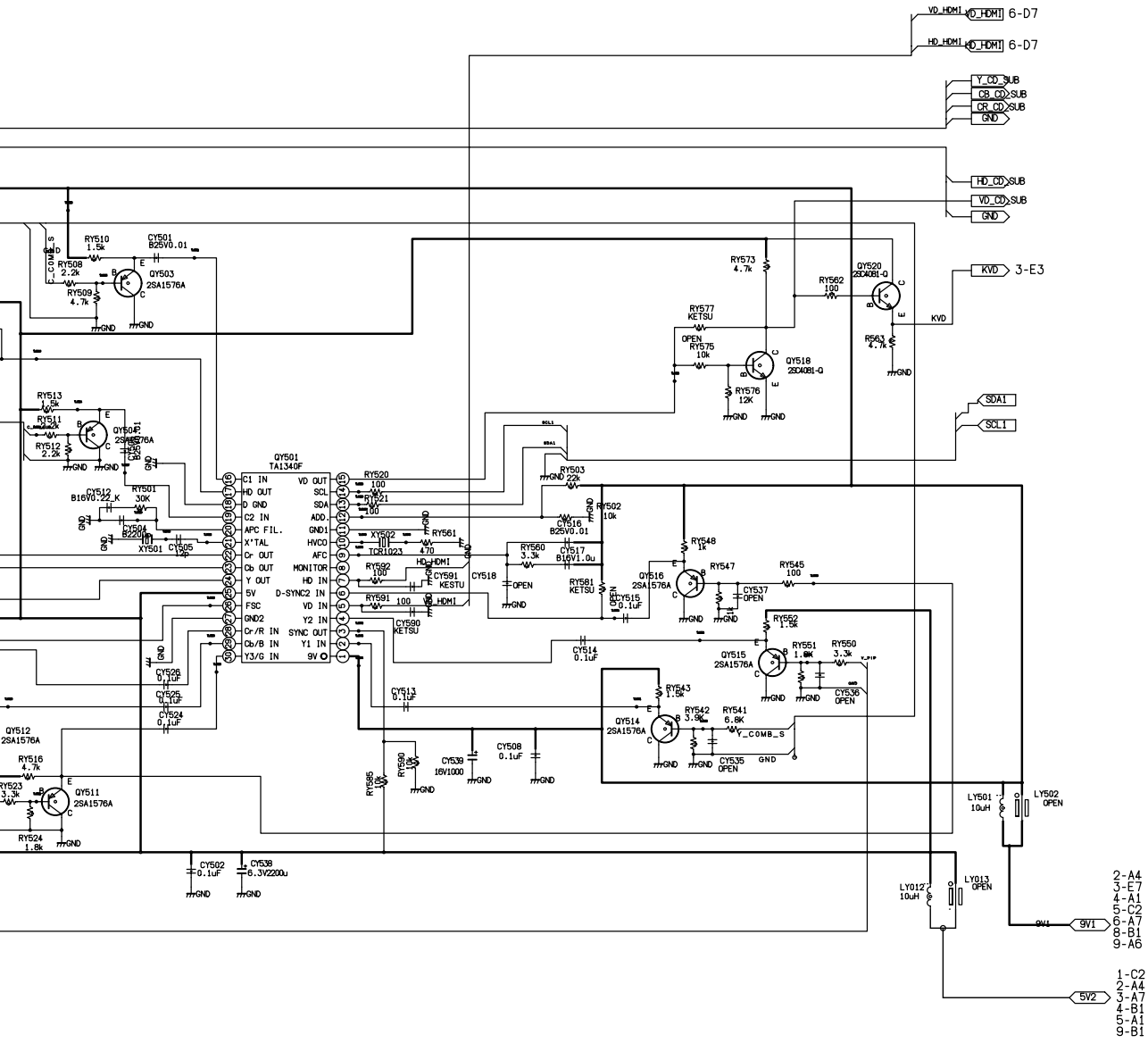

QV254
MM1519XQ
QV04
2SC4081-Q
QV71
2SC4081T106
V_BS
SY_MC
MY_MC
PR_1
PB_1
Y_1
PR_2
PB_2
Y_2
Y
GND
CB
CR



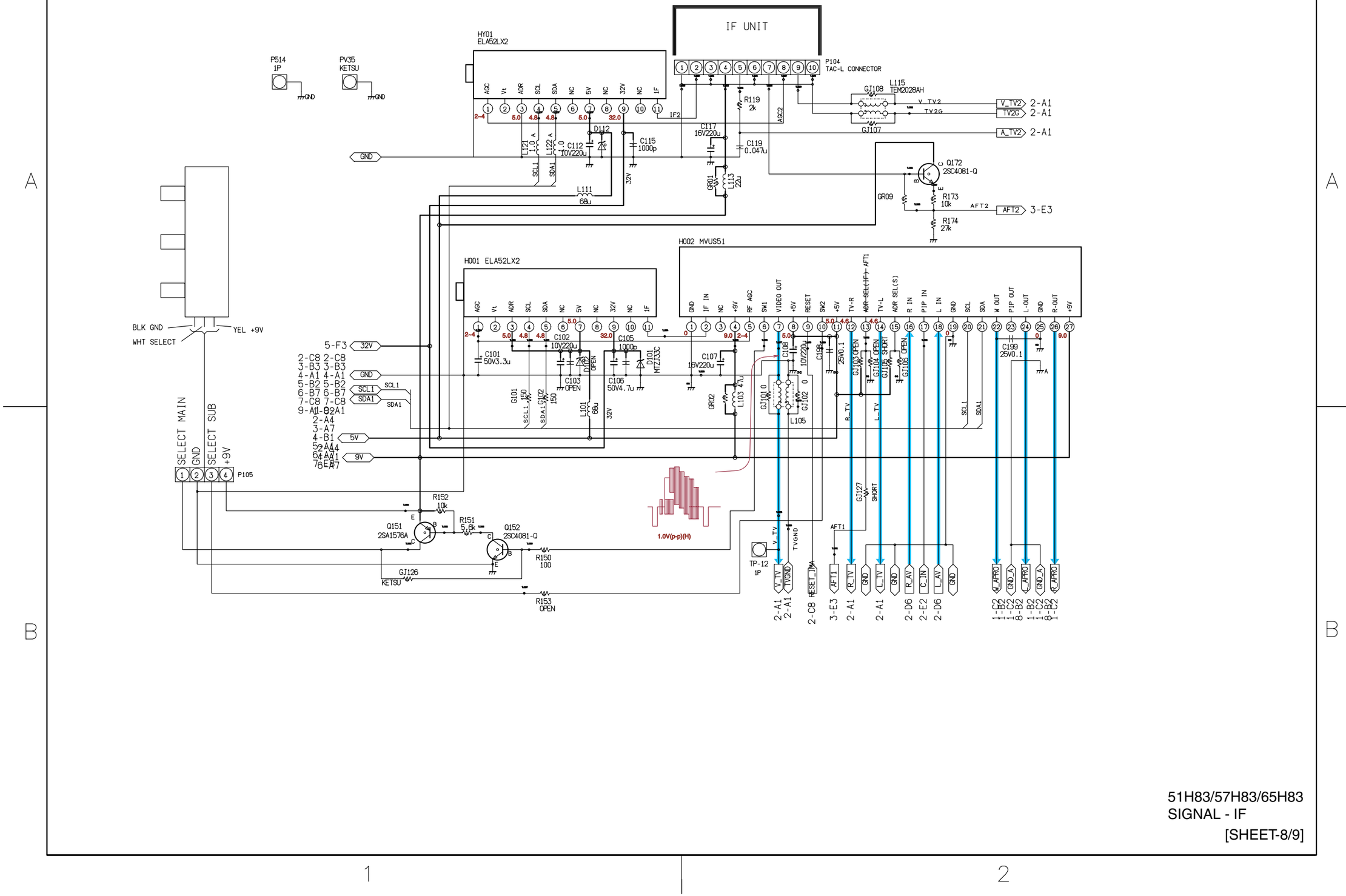
51H83/57H83/65H83
SIGNAL - AV-2
[SHEET-6/9]

51H83/57H83/65H83
SIGNAL - AV-3
[SHEET-7/9]

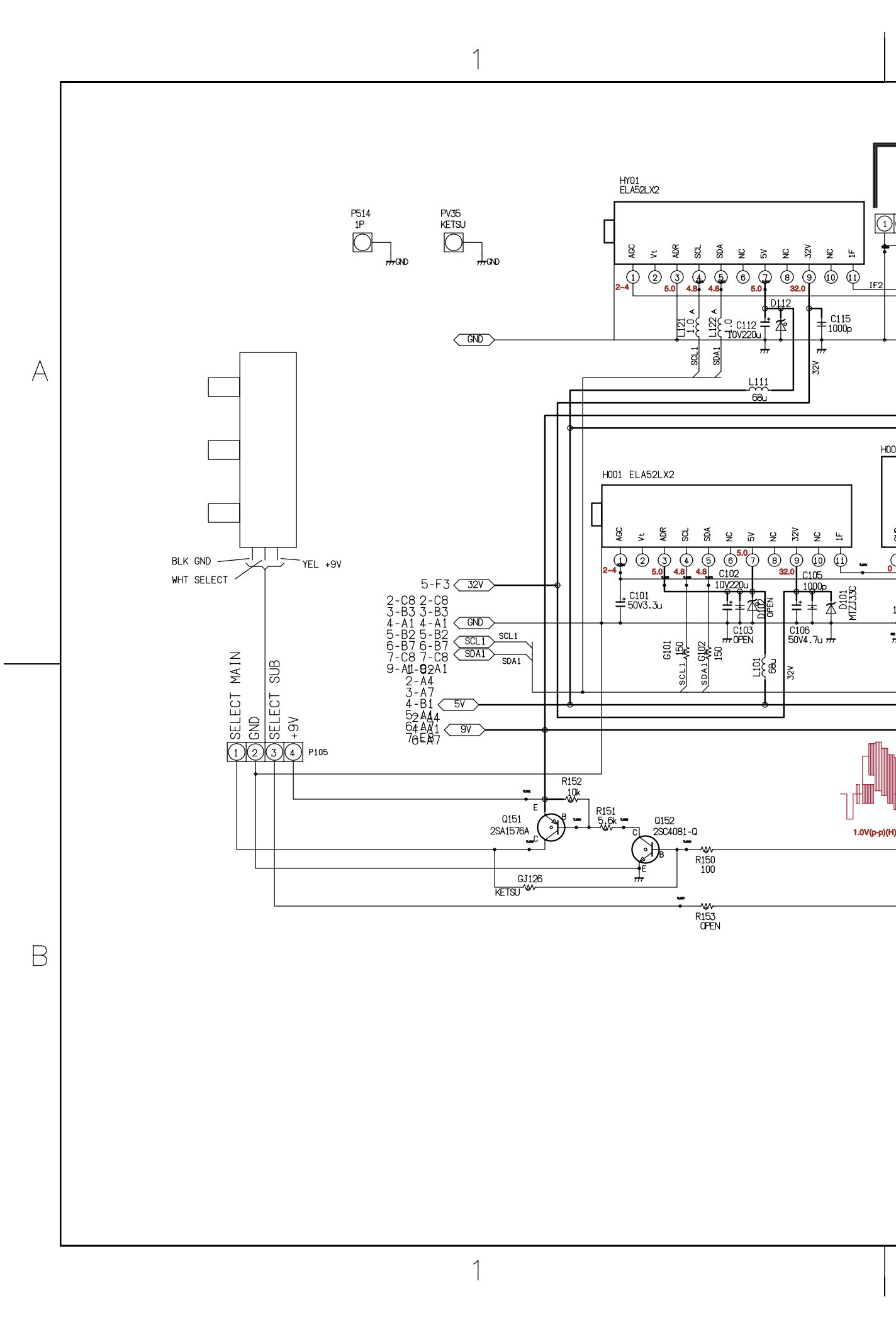

C_AV_SUB
GND
Y_COMB_S
C_COMB_S
CR_CD_SUB
CB_CD_SUB
Y_CD_SUB
V_PIP
GND_PIP
SUB-Y
SUB-CB
SUB-CR
2-C6
QY101 2SD401-Q
QY102 2SD401-Q
QY100 TC90A45F
QY103 2SA1576A
QY507 2SD401-Q
QY508 OPEN
QY509 OPEN
QY510 OPEN
QY502 2SD457
QY513 2SA1576A
QY512 2SA1576A
RY103 1k
RY104 1k
RY101
RY102 RM73B1H221J
RY105 RM73B1H221D
RY106 RM73B1HR000D
RY107 2.2
RY109 3.3k
RY110 1.5k
RY507 4.7k
RY504 10k
RY505 12k
RY537 OPEN
RY534 SHORT
RY531 OPEN
RY540 OPEN
RY536 OPEN
RY533 SHORT
RY530 OPEN
RY508 SHORT
RY539 OPEN
RY535 OPEN
RY532 100
RY529 1k
RY538 OPEN
JY507 KETSU
JY508
JY509
RY518 4.7k
RY527 2.2k
RY528 2.2k
RY517 4.7k
RY525 2.2k
RY526 2.2k
RY523 3.3k
RY514 OPEN
RY519 OPEN
CY582 100P
CY115 33p
CY116 47p
CY117 18p
CY103 25V0.1
CY102 16V100u
CY101 16V1u
CY104 B25V0.01
CY105 B25V0.01
CY106 B25V0.01
CY107 OPEN
CY108 25V0.1
CY109
CY110 OPEN
CY111 B25V0.01
CY112 180p
CY113 RM73B1HR000D
CY118 OPEN
LY101 TEM2120M
LY102 TEM2120M
LY103 TEM2134AD
LY104 PL-15
LY105 PL-27
LY100 PL-33
LY112 TEM2134AD
GND

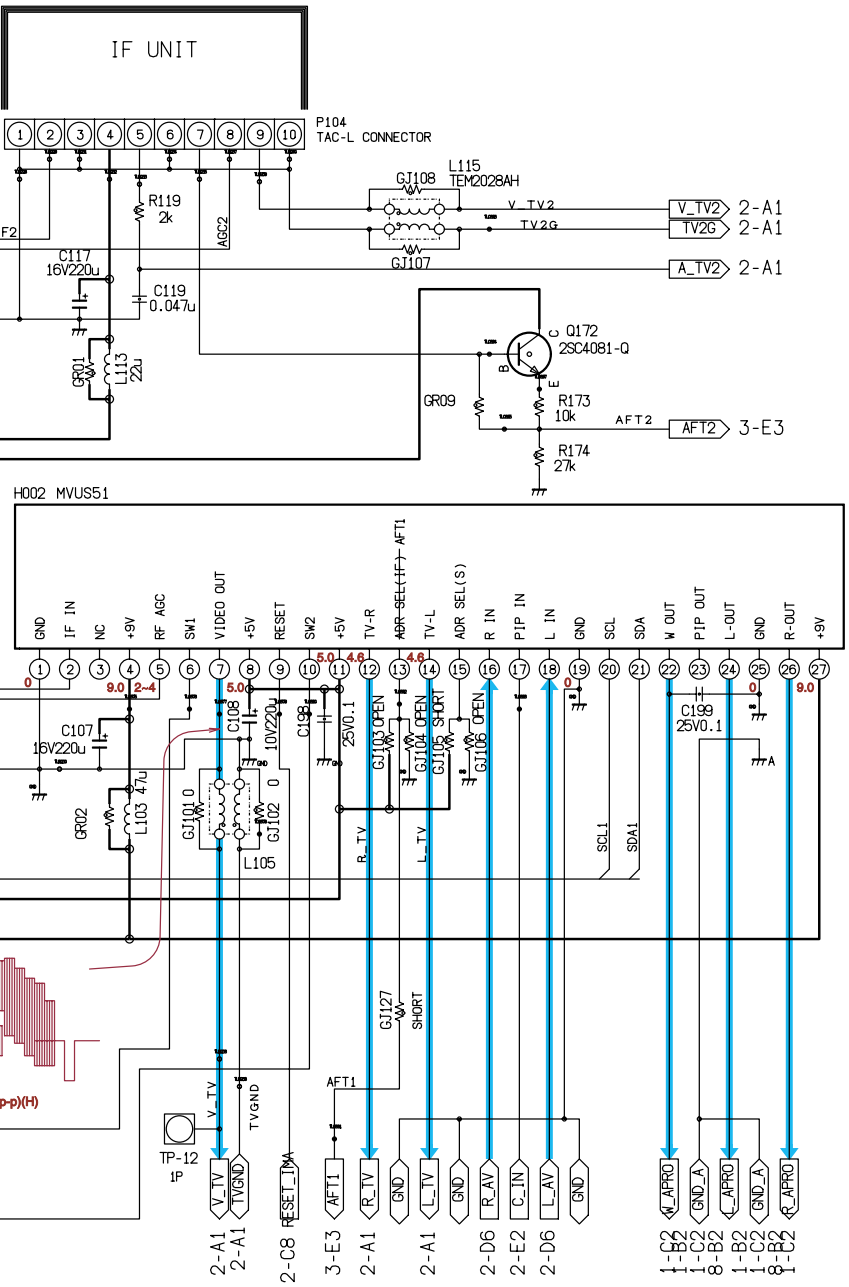


51H83/57H83/65H83
SIGNAL - AV-3
[SHEET-7/9]

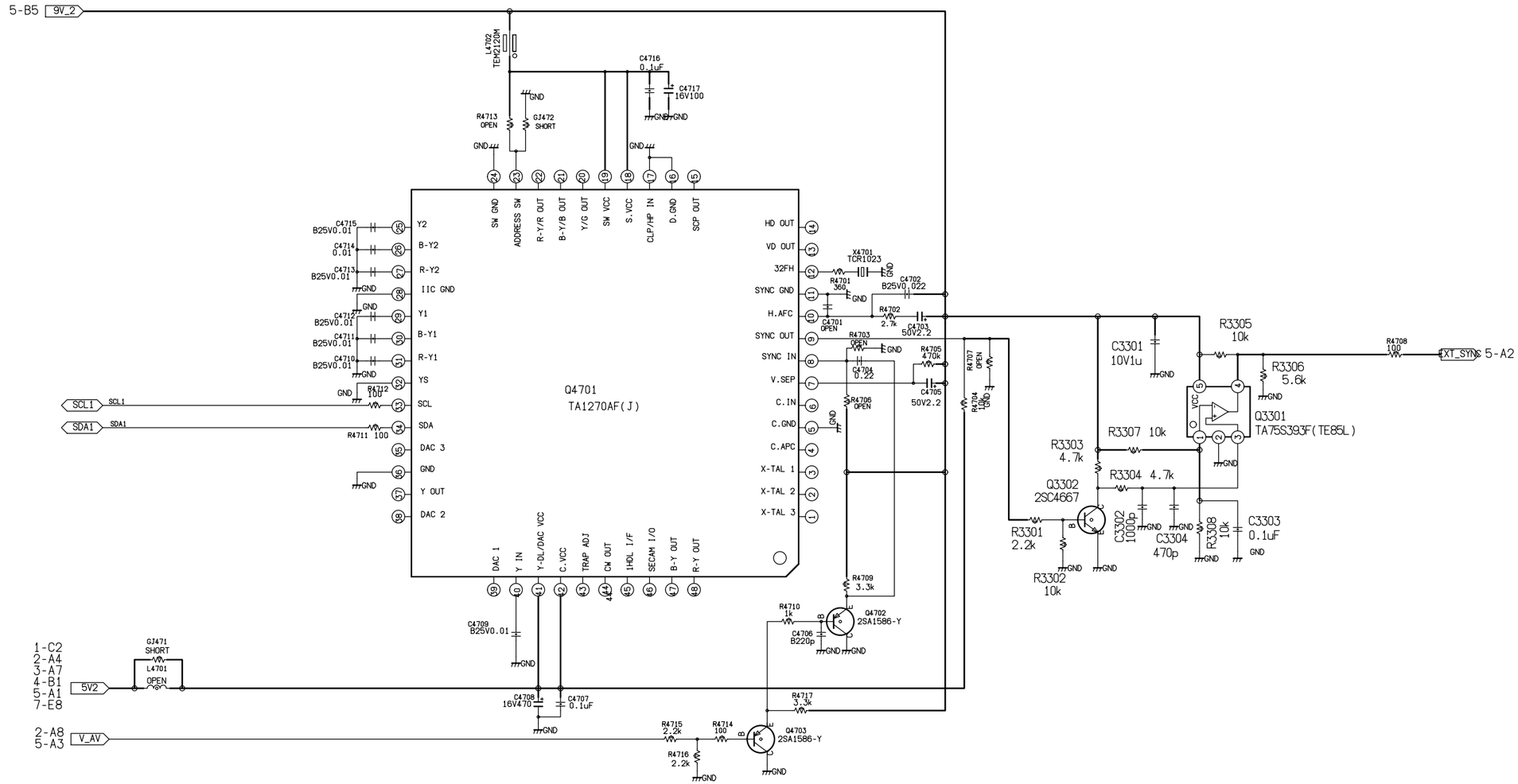


51H83/57H83/65H83
SIGNAL - IF
[SHEET-8/9]

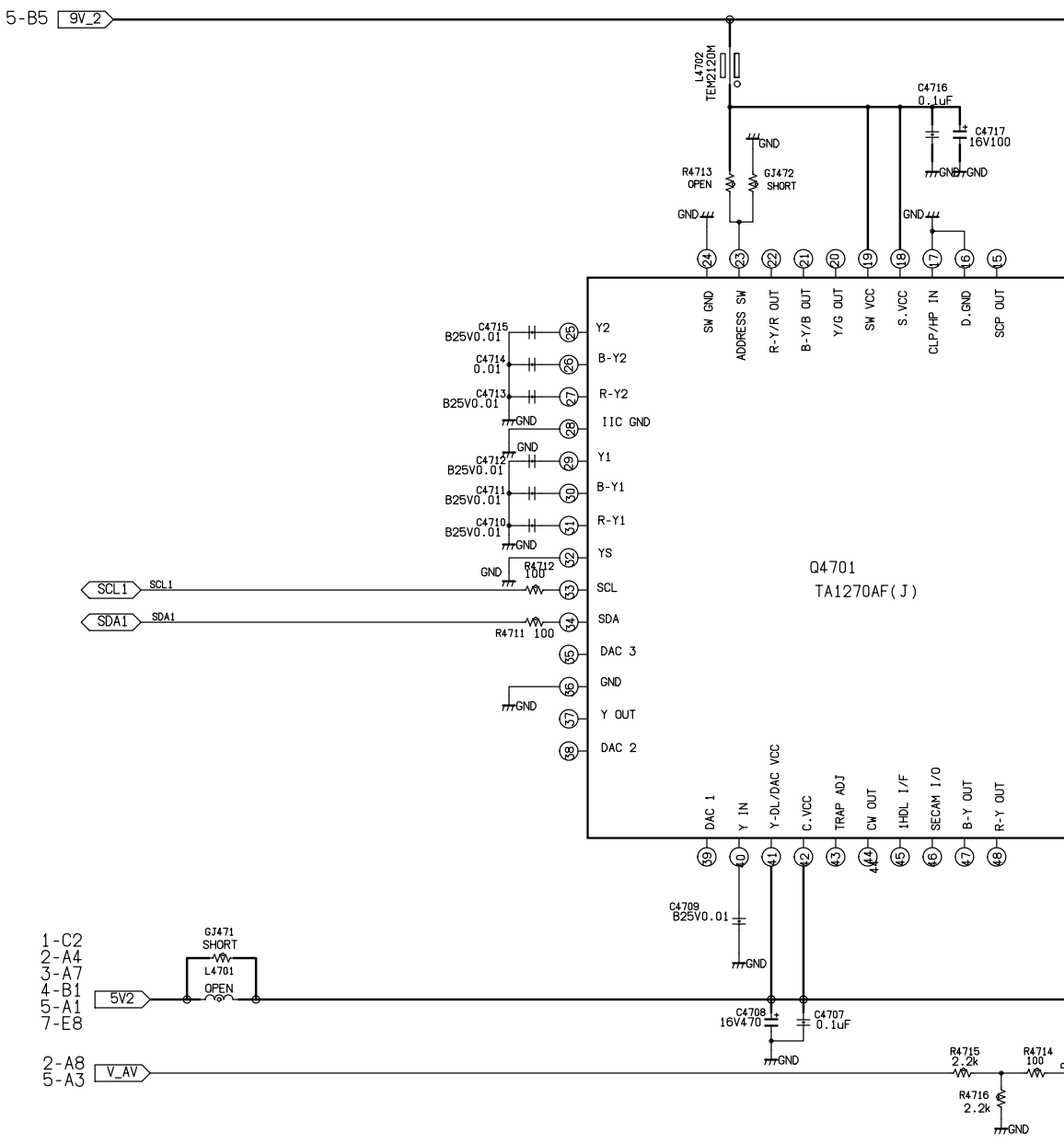

HY01
ELA52LX2
AGC
Vt
ADR
SCL
SDA
NC
5V
NC
32V
NC
1F
P514
1P
PV35
KETSU
GND
D112
C115
1000p
C112
10V220u
L121
1.0 A
L122
1.0 A
SCL1
SDA1
32V
L111
68u
H001 ELA52LX2
C101
50V3.3u
C102
10V220u
C103
OPEN
C105
1000p
C106
50V4.7u
D101
MTZJ33C
G101
150
G102
150
L101
68u
BLK GND
WHT SELECT
YEL +9V
5-F3
2-C8
3-B3
4-A1
5-B2
6-B7
7-C8
9-A1
2-A4
3-A7
4-B1
5-A4
6-A1
7-E8
5V
9V
SELECT MAIN
GND
SELECT SUB
+9V
P105
R152
10k
R151
5.6k
Q151
2SA1576A
Q152
2SC4081-Q
R150
100
GJ126
KETSU
R153
OPEN
1.0V(p-p)(H)

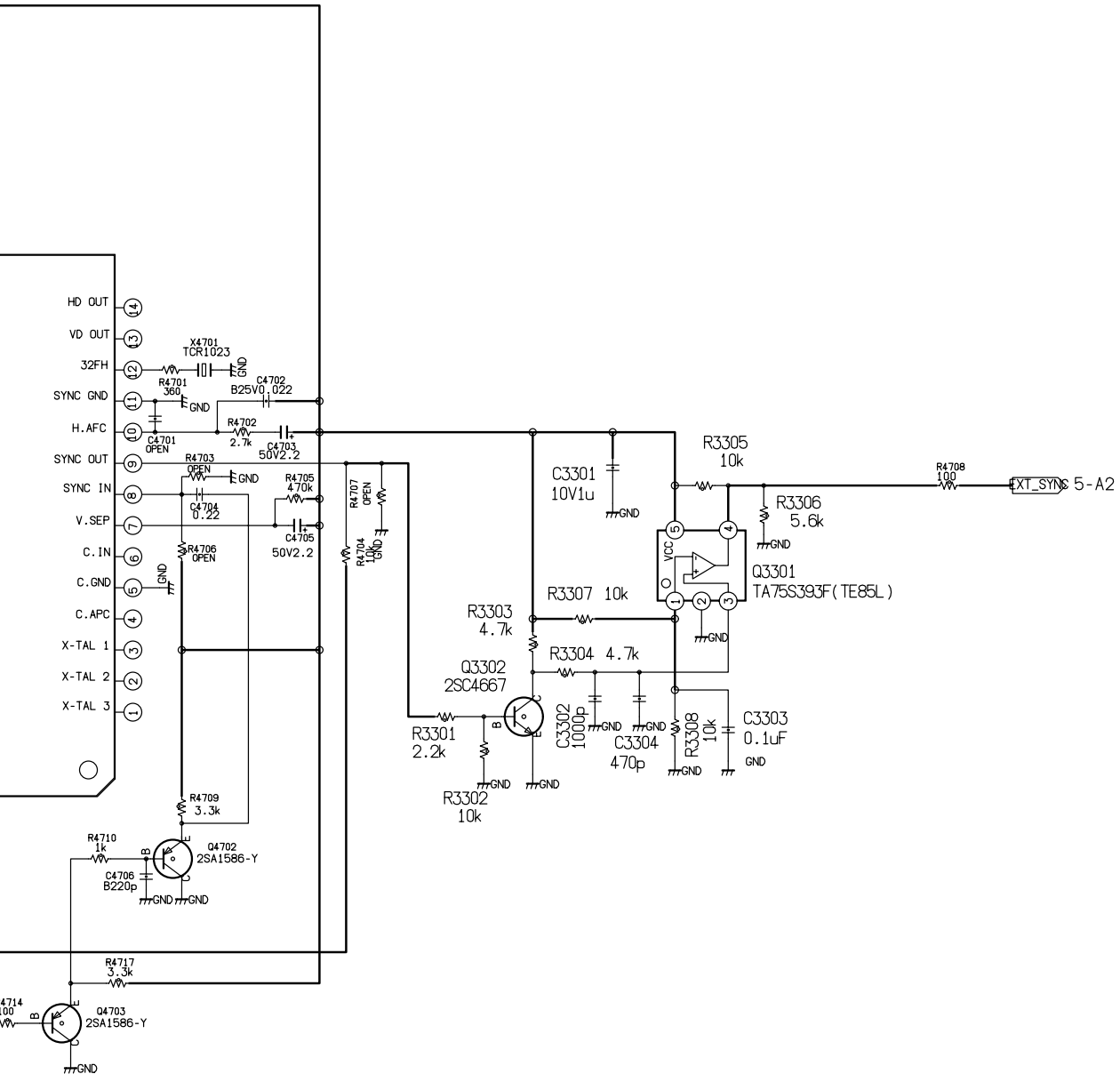


51H83/57H83/65H83
SIGNAL - IF
[SHEET-8/9]



51H83/57H83/65H83
SIGNAL - SYNC OUT
[SHEET-9/9]


5-B5
9V_2
L4702
TEM2120M
C4716
0.1uF
C4717
16V100
GND
R4713
OPEN
GJ472
SHORT
SW GND
ADDRESS SW
R-Y/R OUT
B-Y/B OUT
Y/G OUT
SW VCC
S.VCC
CLP/HP IN
D.GND
SCP OUT
C4715
B25V0.01
C4714
0.01
C4713
B25V0.01
C4712
B25V0.01
C4711
B25V0.01
C4710
B25V0.01
Y2
B-Y2
R-Y2
IIC GND
Y1
B-Y1
R-Y1
YS
SCL
SDA
DAC 3
GND
Y OUT
DAC 2
R4712
100
R4711
100
SCL1
SDA1
Q4701
TA1270AF(J)
DAC 1
Y IN
Y-DL/DAC VCC
C.VCC
TRAP ADJ
CW OUT
IHDL I/F
SECAM I/O
B-Y OUT
R-Y OUT
C4709
B25V0.01
1-C2
2-A4
3-A7
4-B1
5-A1
7-E8
GJ471
SHORT
L4701
OPEN
5V2
C4708
16V470
C4707
0.1uF
2-A8
5-A3
V_AV
R4715
2.2k
R4714
100
R4716
2.2k



51H83/57H83/65H83
SIGNAL - SYNC OUT
[SHEET-9/9]

LIVE AREA

Q801 STR-Z4479

T862 TPW3516AF

T0 SVM

P706A 4P_2.5mm_1.5A_Beige

P810A 7P_2.5mm_1.5A_Beige

P811A 10P_2.5mm_1.5A_Beige

P813A 6P_2.5mm_1.5A_Beige

P814A 9P_2.5mm_1.5A_Beige

P815A 8P_2.5mm_1.5A_Beige

T0 DEF/CONV

T0 SIGNAL

2-B3 AC-

2-B3 AC+

P800 Lock 2P_11.88mm_S

P805B

F801 125V7.0A_23144481

T801 TRF3241AQ

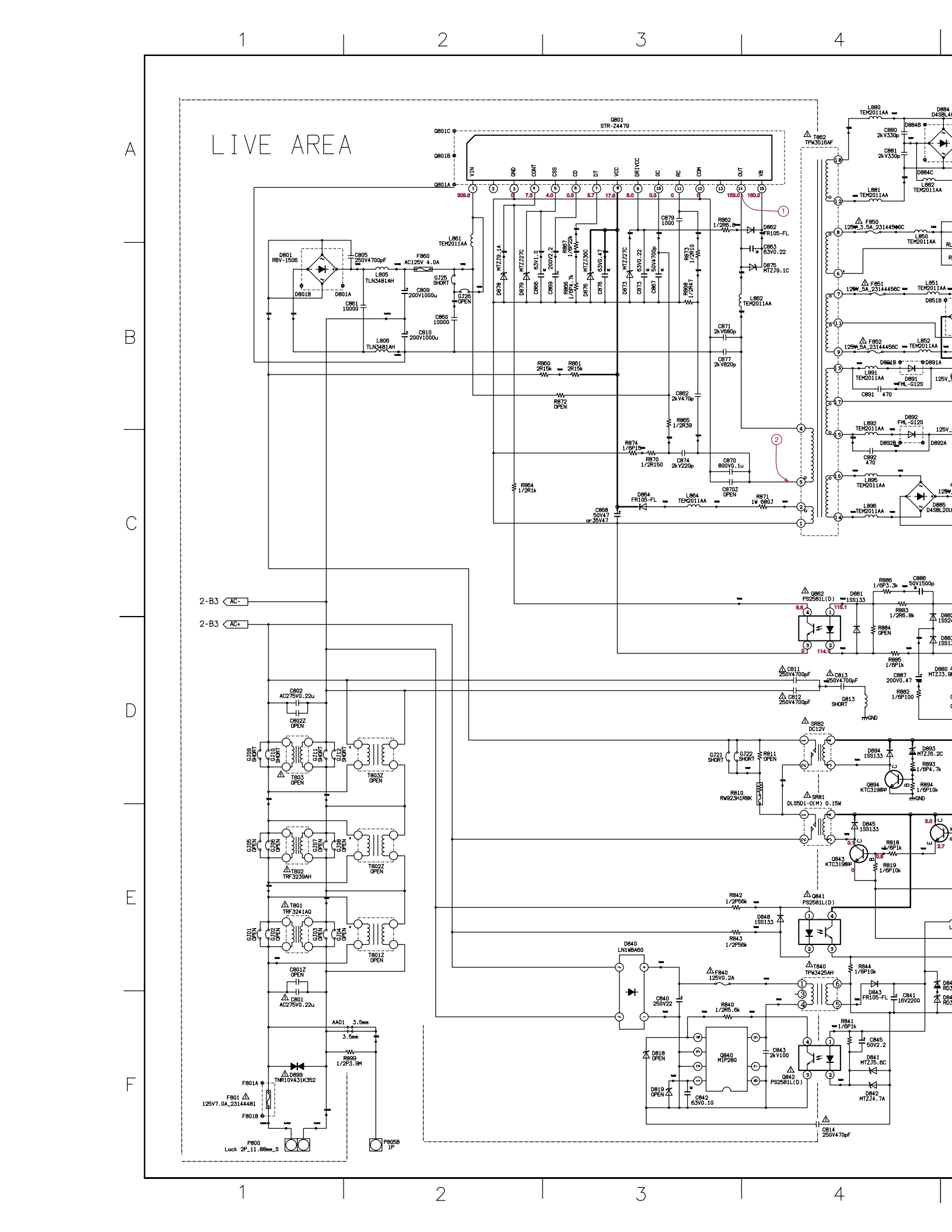
T802 TRF3239AH

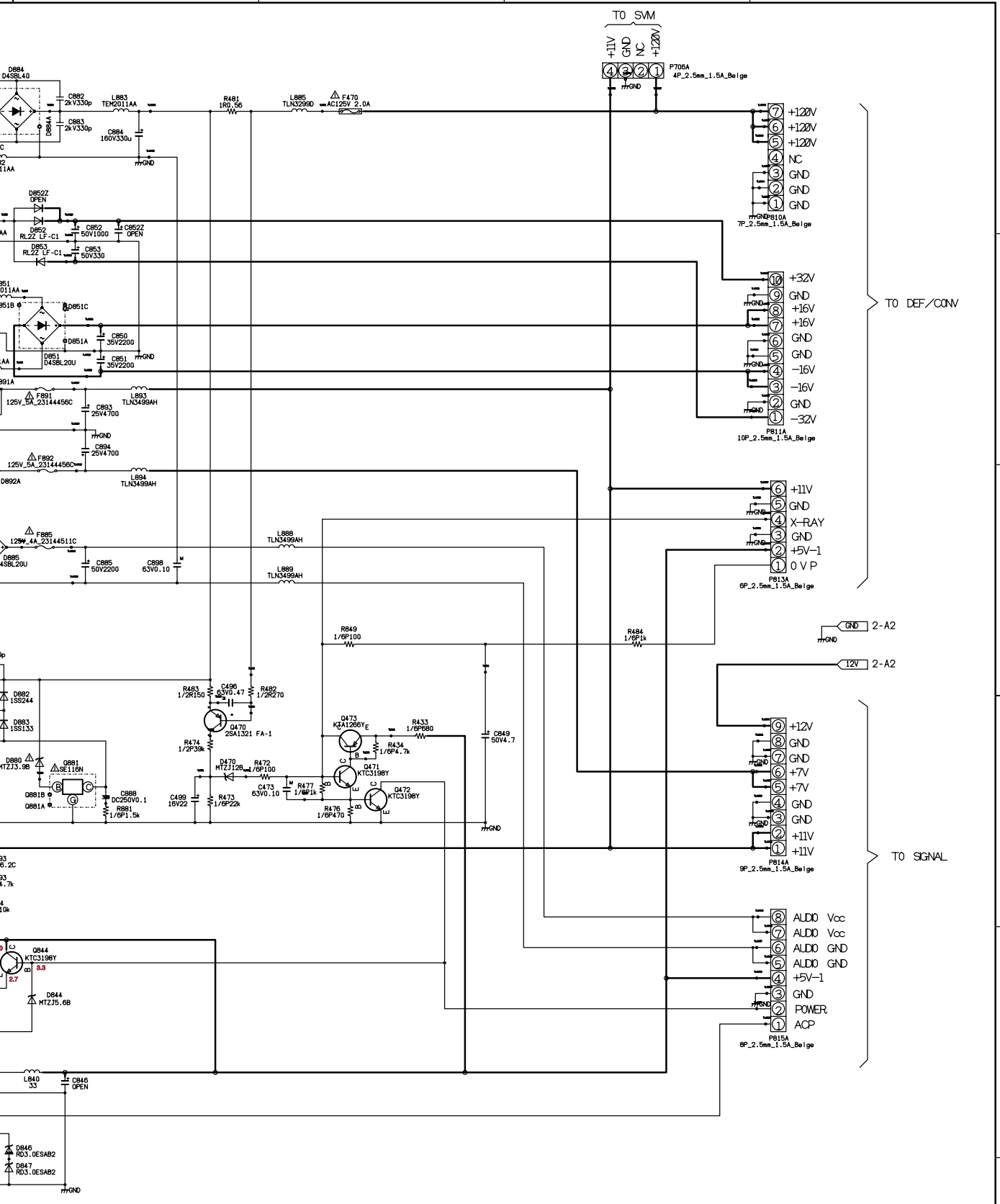
T803 OPEN

T0 2-A2 GND

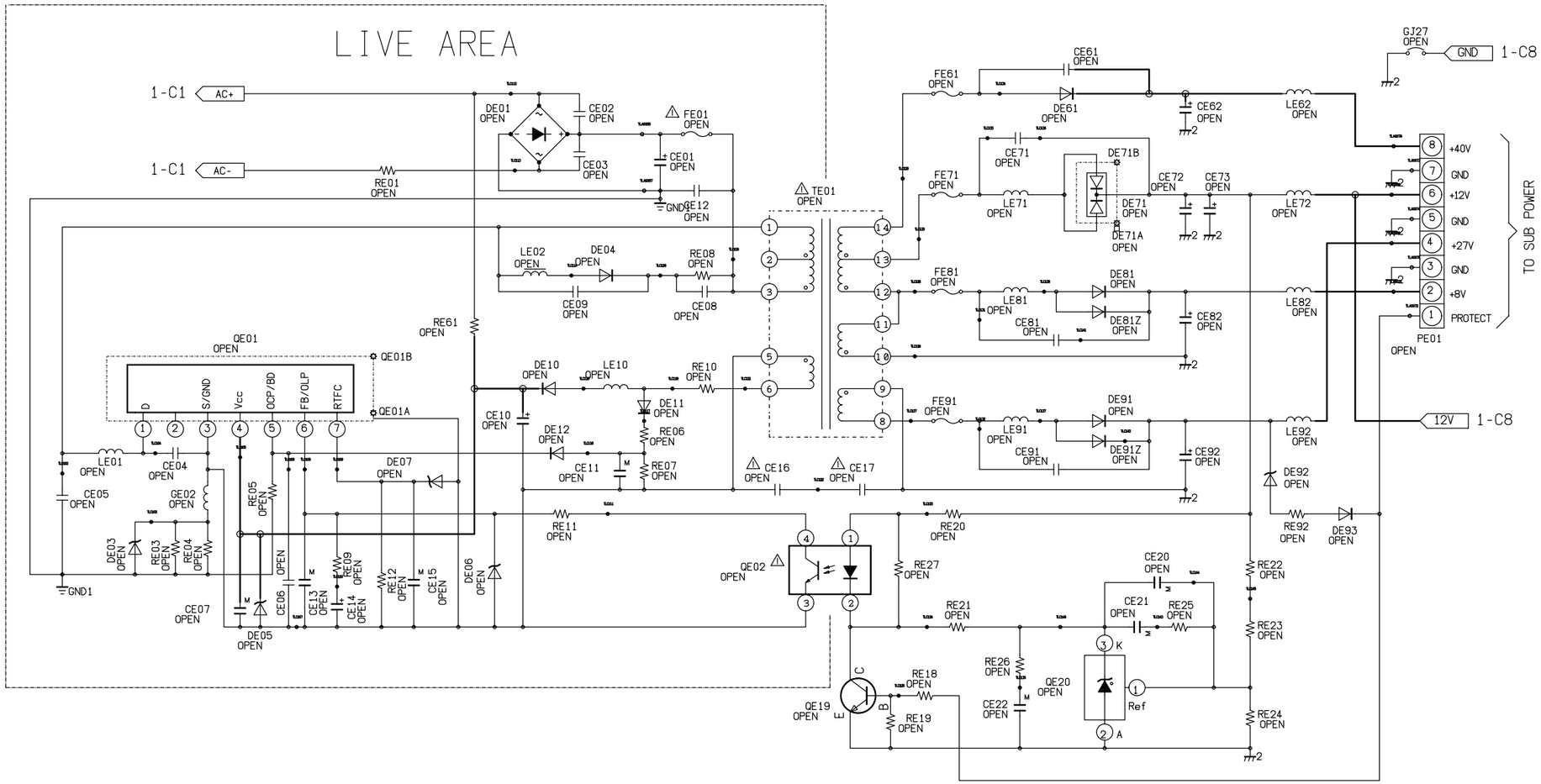
T0 2-A2 12V

51H83/57H83/65H83
POWER - (1/2)
[SHEET-1/2]


LIVE AREA
Q801
STR-Z4479
VIN
GND
CONT
CSS
CD
DT
VCC
DRIVCC
OC
RC
COM
OUT
VB
T862
TPW3516AF
2-B3 AC-
2-B3 AC+
Q862
PS2581L(D)
SR82
DC12V
SR81
DLS5D1-O(M) 0.15W
Q841
PS2581L(D)
Q842
PS2581L(D)
T803
T802
TRF3239AH
T801
TRF3241AQ
T801Z
T802Z
T803Z
F840
125V0.2A
F801
125V7.0A_23144481
P800
Lock 2P_11.88mm_S
P8058
1P
C814
250V470pF

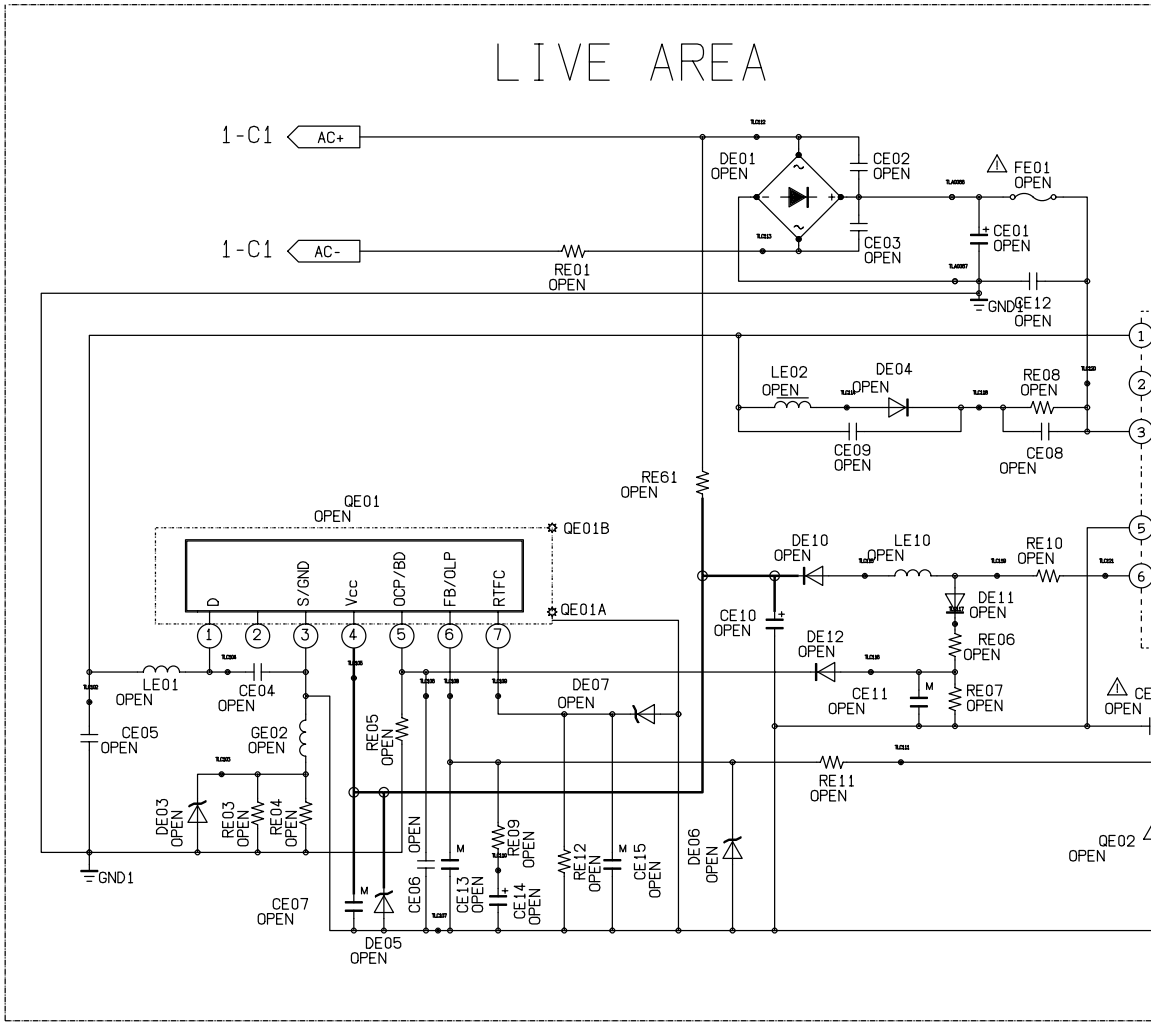


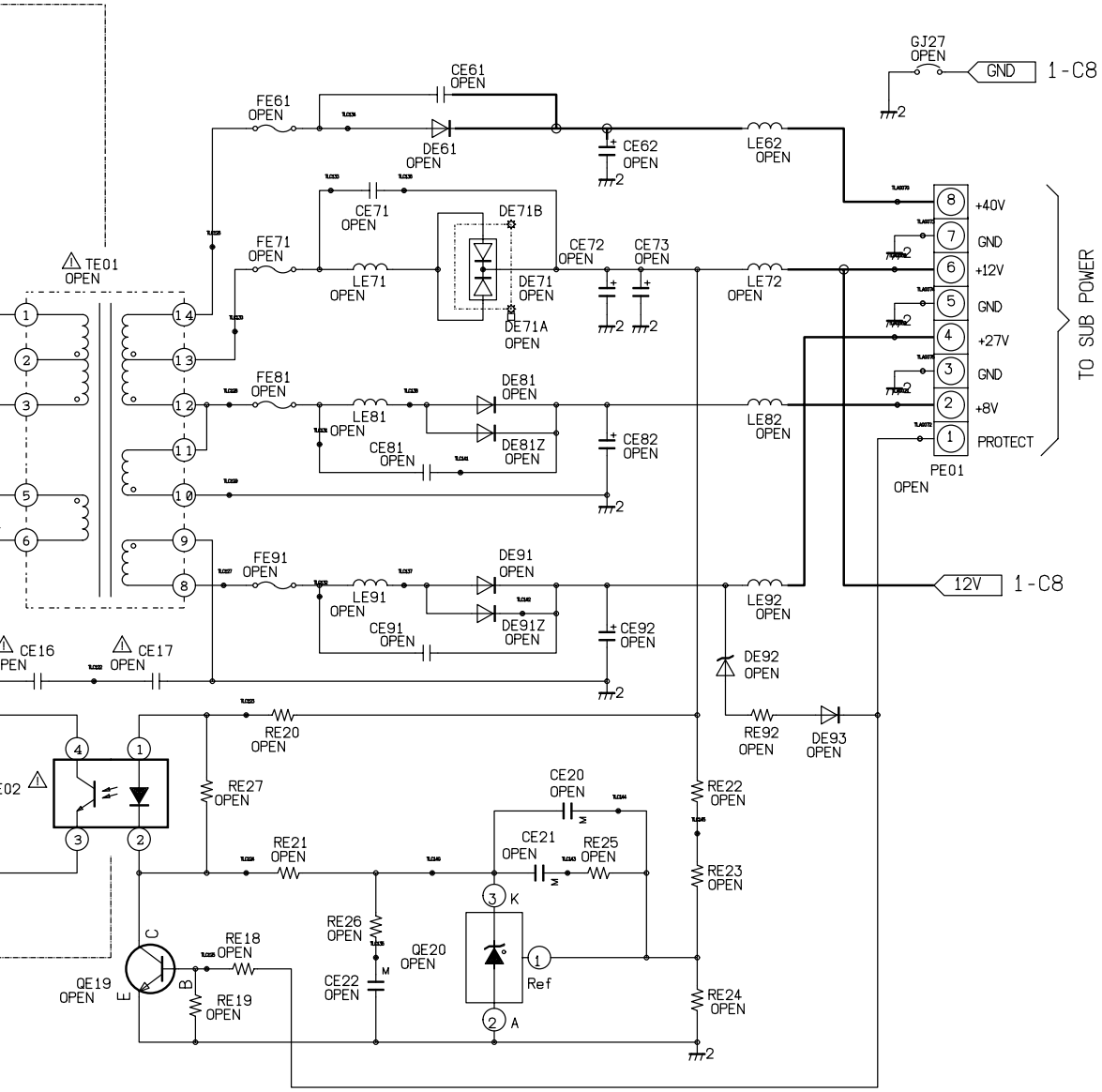
51H83/57H83/65H83
POWER - (1/2)
[SHEET-1/2]



51H83/57H83/65H83
POWER - (2/2)

[SHEET-2/2]

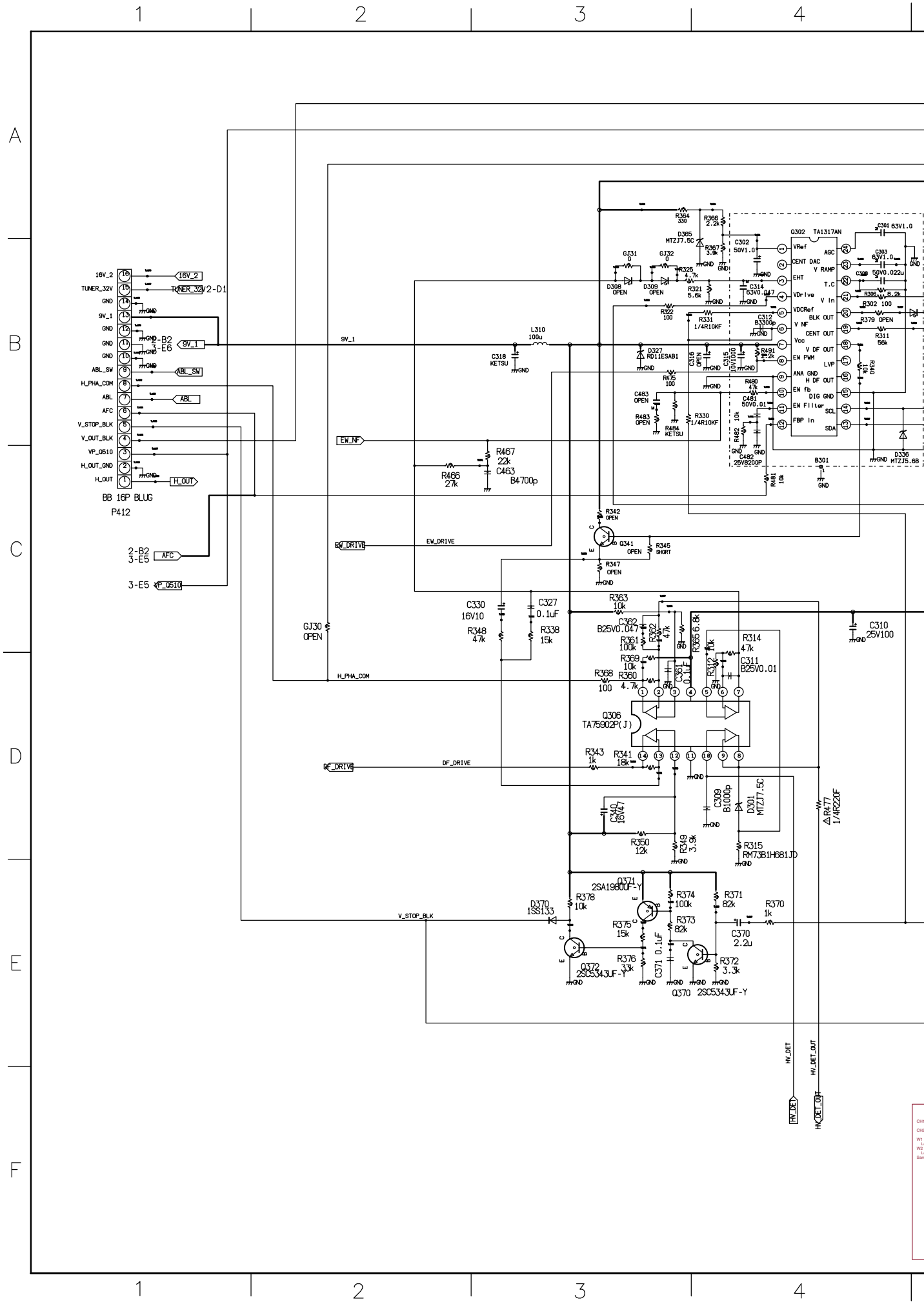

LIVE AREA
1-C1
AC+
1-C1
AC-
RE01
OPEN
DE01
OPEN
CE02
OPEN
CE03
OPEN
FE01
OPEN
CE01
OPEN
GND2
CE12
OPEN
LE02
OPEN
DE04
OPEN
RE08
OPEN
CE09
OPEN
CE08
OPEN
RE61
OPEN
QE01
OPEN
QE01B
QE01A
D
S/GND
Vcc
OCP/BD
FB/OLP
RTFC
DE10
OPEN
LE10
OPEN
RE10
OPEN
DE11
OPEN
CE10
OPEN
DE12
OPEN
RE06
OPEN
CE11
OPEN
RE07
OPEN
LE01
OPEN
CE04
OPEN
DE07
OPEN
CE05
OPEN
GE02
OPEN
RE05
OPEN
RE11
OPEN
DE03
OPEN
RE03
OPEN
RE04
OPEN
GND1
CE06
OPEN
CE13
OPEN
RE09
OPEN
CE14
OPEN
RE12
OPEN
CE15
OPEN
DE06
OPEN
CE07
OPEN
DE05
OPEN
QE02
OPEN

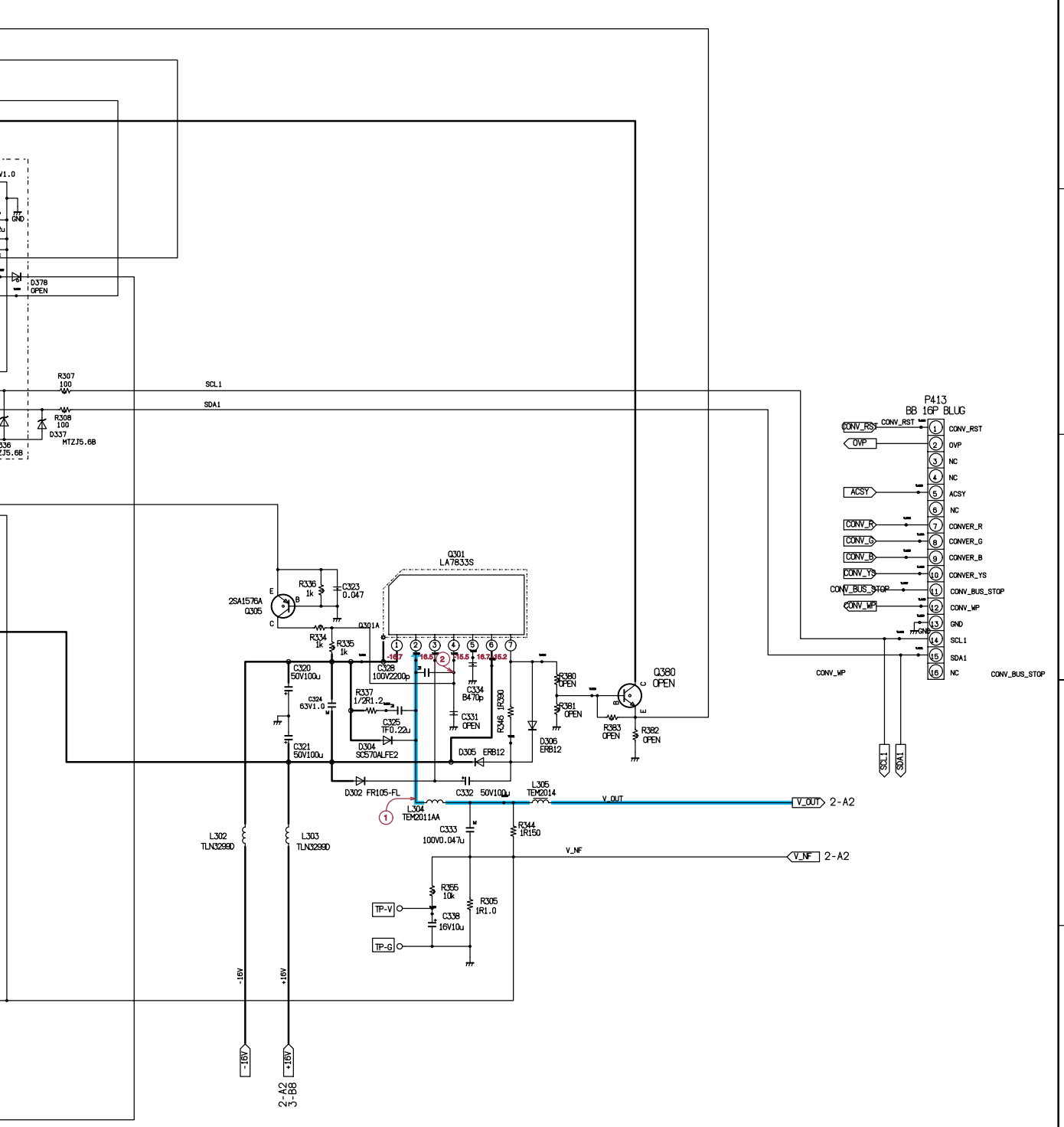


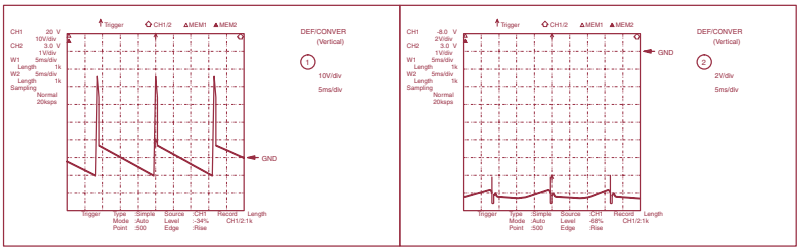
51H83/57H83/65H83
POWER - (2/2)

[SHEET-2/2]

51H83/57H83/65H83
DEF/CONVER - Vertical
[SHEET-1/3]


16V_2
TUNER_32V
9V_1
ABL_SW
H_PHA_COM
ABL
AFC
V_STOP_BLK
V_OUT_BLK
VP_Q510
H_OUT_GND
H_OUT
BB 16P BLUG
P412
2-B2
3-E6
2-B2
3-E5
3-E5
EW_NF
EW_DRIVE
DF_DRIVE
V_STOP_BLK
H_PHA_COM
GJ30
OPEN
Q302 TA1317AN
VRef
CENT DAC
EHT
VDrive
VDCRef
V NF
Vcc
EW PWM
ANA GND
EW fb
FBP In
AGC
V RAMP
T.C
V In
BLK OUT
V DF OUT
CENT OUT
LVP
H DF OUT
DIG GND
EW Filter
SCL
SDA
Q306
TA75902P(J)
Q371
2SA1980UF-Y
Q372
2SC5343UF-Y
Q370 2SC5343UF-Y
D336
MTZJ5.6B
D365
MTZJ7.5C
D301
MTZJ7.5C
D370
1SS133
HV_DET
HV_DET_OUT





51H83/57H83/65H83
DEF/CONVER - Vertical
[SHEET-1/3]

TO CRT-DRIVE(GREEN) PD0080(P917)

HEATER GND GND NC 220V
5P_2.5mm_1.5A_Beige
P404

1-E6 3-B8 +16V
1-D7 V_OUT
1-D7 V_NF
ABL
1-C1 3-E5 AFC
ABL_SW
EW_NF
3-E5 AFC_2
EW_DRIVE
HF_DRIVE
3-D1 3-B1 3-E6 9V_I

P411
6P_2.5mm_1.5A_Beige
TO POWER
+11V GND X_RAY GND +5V-1 OVP
HV_DET_OUT +11V 3-A1
OVP

P410
7P_2.5mm_1.5A_Beige
TO POWER
+120V +120V +120V NC GND(+120V) GND(+120V) GND(+120V)
16V_2
H_OUT
1-B1 TONER_32V
R101 2R18k

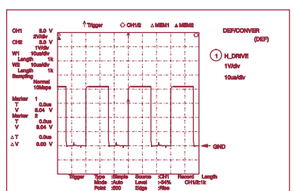
D450 FR105-FL EU2A
D401 AG01
D402 FR105-FL EU2A
D491 1SS133
D492 MTZJ10B
D490 MTZJ6.2B
D411 MTZJ18B
D418 MTZJ33C
D419 1SS355
D420 1SS133
D421 FR105-FL EU2A
D505 EU2A
D461 FMG-32U
D461A
D468 PF_S30V6.8n_J
D467 PF_S30V6.8n_J
D464 25V3.3u
D425 FR105-FL EU2A
D426 MTZJ18B
D406 S5295G
D404 ERC06-15L
D415 FR105-FL EU2A
D414 FR105-FL EU2A
D413 FR-1H
D412 FR-1H

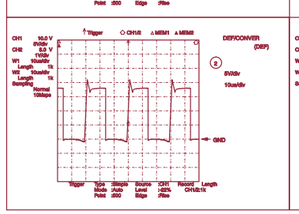
Q241 2SC2482
Q420 2SC2482
Q409 KTC3198Y
Q408 KTA1266Y
Q406 KTC3198Y
Q405 KTA1266Y
Q402 2SK941
Q404 2SC5859
Q404A
Q410 2SC4081-Q
Q411 2SC4081-Q
Q428 KTC3198Y
Q425 FET 2SK2920
Q400 2SC4686A

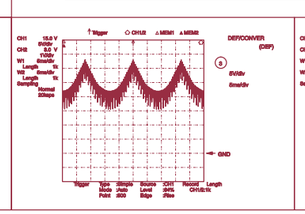
T461 TFB3092AD
T401 TLN1080AH
T400 TLN2220AL

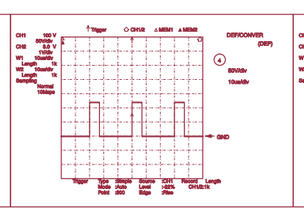
L401 56u
L402 TLN3534AH
L403 TEM2011AA
L405 TLN3514AD
L406 TLN3514AD
L407 TEM2014
L408 TEM2014
L441 TLN2222AG
Z450 TPA5010AH
Z401 SG99B3EN

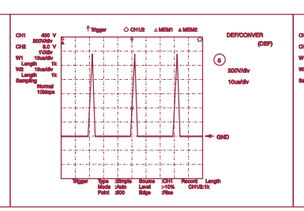
R249 1/6P470k
R513
R242 1/6P22kG
R244 1/6P120k
R241 1/6P22kG
R246 1/6P4.7k
R248 OPEN
R243 1/6P33kG
R240 1/6P15kG
R515 1/6P10k
R245 1/6P4.7k
C221 63V0.10
C515 63V0.10
R420 1/6P10k
R421 1/6P22k
R247 1/6P1k
R422 1/6P22k
R910 OPEN
R407 1/2R10
R447 1R47k
R404 1/6P2.7k
R406 1R6.8k
R405 1/6P100
C405 63V0.10
C446 250V33
R443 1/2R1
GJ406 OPEN
R444 1R0.39
C448Z
C448 160V33u
C445 200V47n
P499 1P
R499 1/6P1k
R498 1/6P10k
R491 1/6P33k
R492 1.2kF
R493 220F
R494 470F
R496 1/6P10k
R497 1/6P10
TE482
TE481
C491 16V10
R416 2R100
R414 1/4RF27
C450 25V1000
C416 100V22u
C401 500V3300p
C402 500V390p
R403 1R100
R413 1/6P100
R415 1/6P1k
C440 1800VH100p
C444 1800VH330p
C443 1800VH100p
C467 PP_S30V6.8n_J
C468 PF_S30V6.8n_J
R441 2RF330
R442 OPEN
GJ42 0.6
GJ43 0.6
C417 250V1.5u
C425 400V0.27u
C423 400V0.30u
C414 FR105-FL EU2A
R412 2R15k
R411 2R4.7
C412 200V82n_J
C412Z
R425 1/2P100K
R424 1/2P100K
R423 1/2S1k
R434 1/2P270K
R432 1/2P270K
R431 2R1k
R428 1P220k
R433 1/2P270K
C426 2kV2200p
C415 2kV1500p
R427 1/6P100
C422 50V1000p
R435 1/6P3.3k
R426 1/6P100
C420 63V0.10
R448 1/6P5.6k
R449 1/6P1.5k
R446 1/6P10k
C432 500V0.033u
R440 10k
C419 330p
R438 1k
R439 10k
R417 2.2k
R436 1/6P47k
R418 10k
R437 22k
R419 10k
R410 3R22
R409 3R22
C449 500V220p
R470 1/6P220k
R469 1/6P100
R490 1/2R330
C460 200V22u
R423 1/2S1k
PLUG 3P_5mm
P405
Focus Pack
RED GREEN BLUE
P401 6P_5mm_5A
P402 6P_5mm_5A
P403 6P_5mm_5A
R390 1R560
R391 1R560
R392 1R560
2.65ohm
1ohm
(V)
(H)
L462 TDY707AS(R)
L463 TDY707AS(R)
L464 TDY707AS(R)
HV_DET
123Vp-p
30Vp-p
122V
123Vp-p
1200Vp-p
0.1ohm
2.2ohm

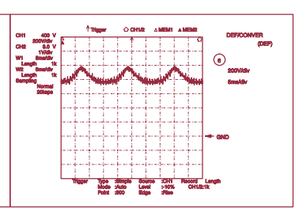




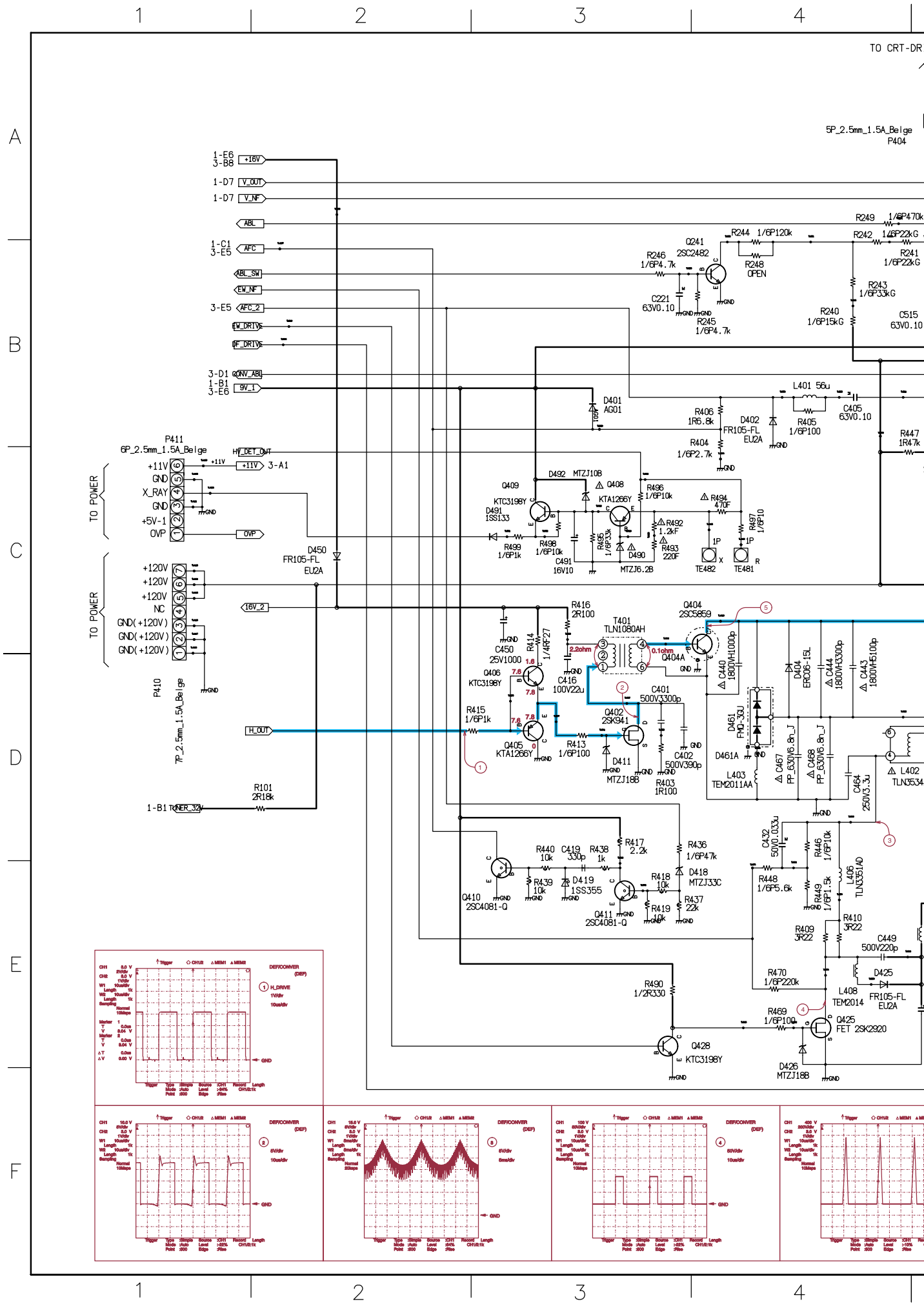


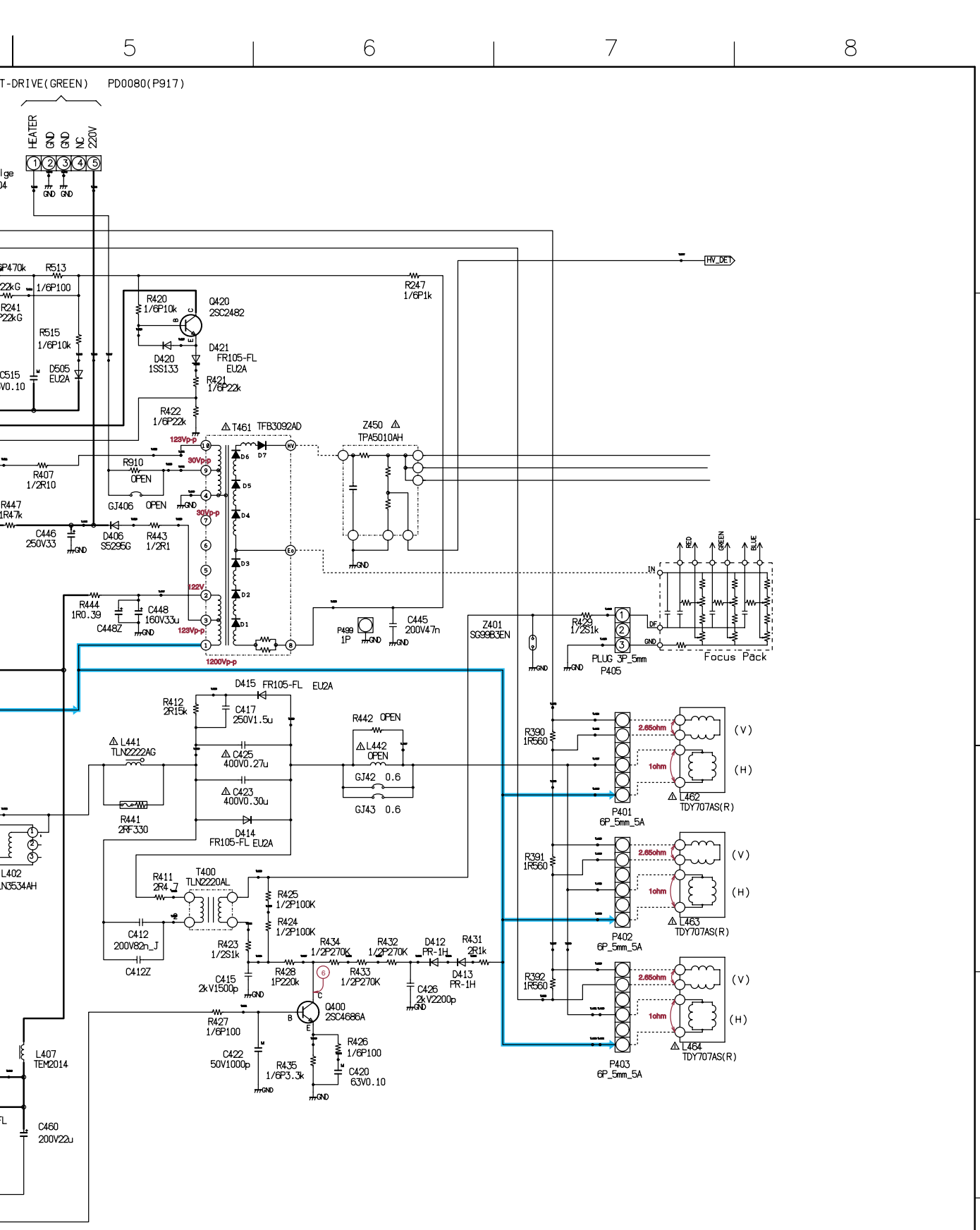


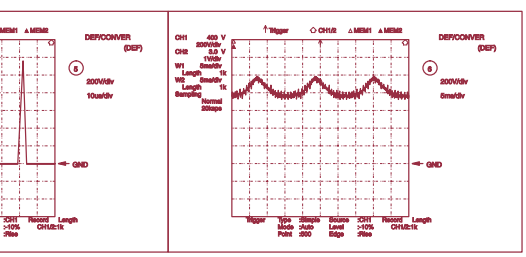




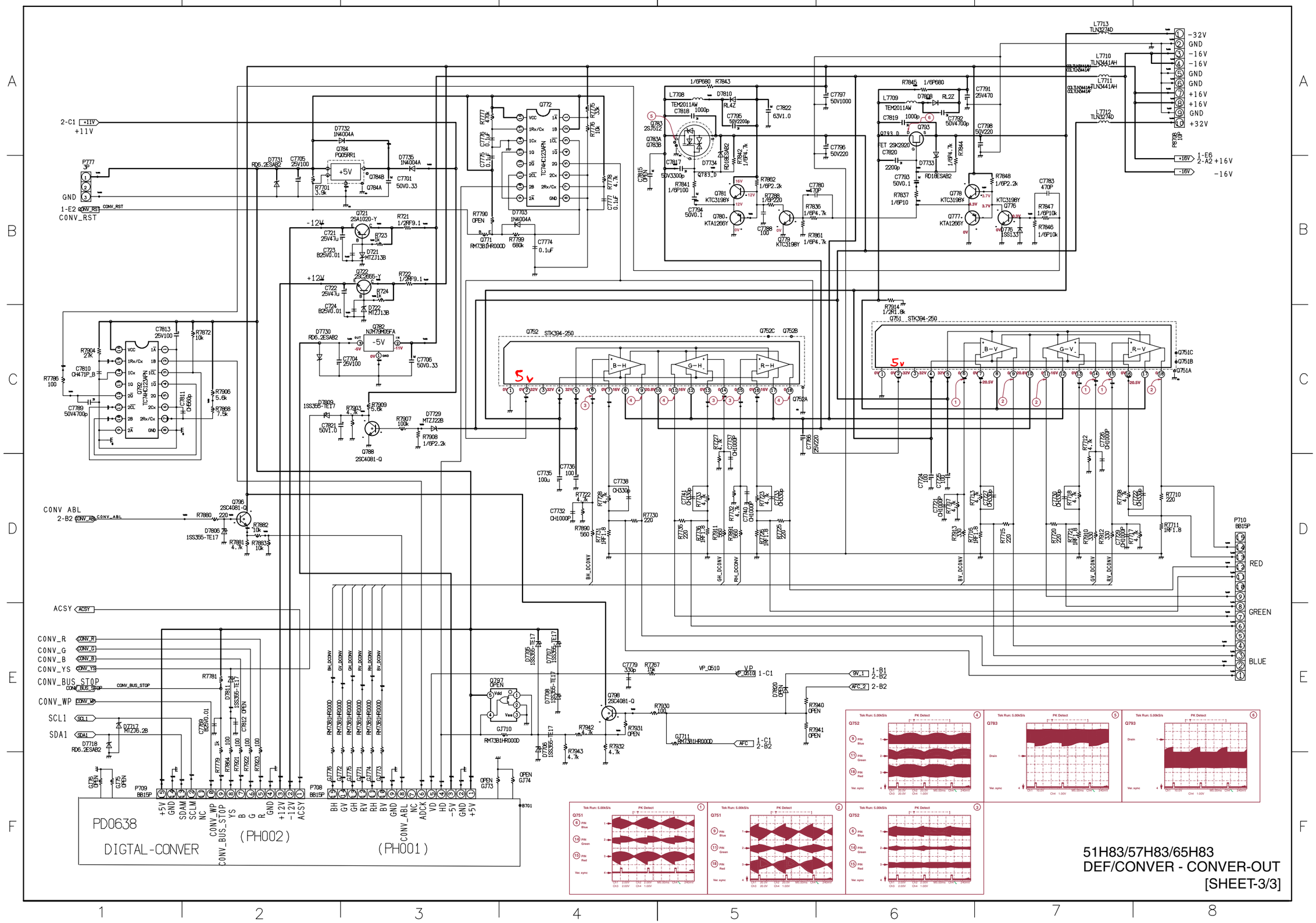
51H83/57H83/65H83
DEF/CONVER - DEF
[SHEET-2/3]

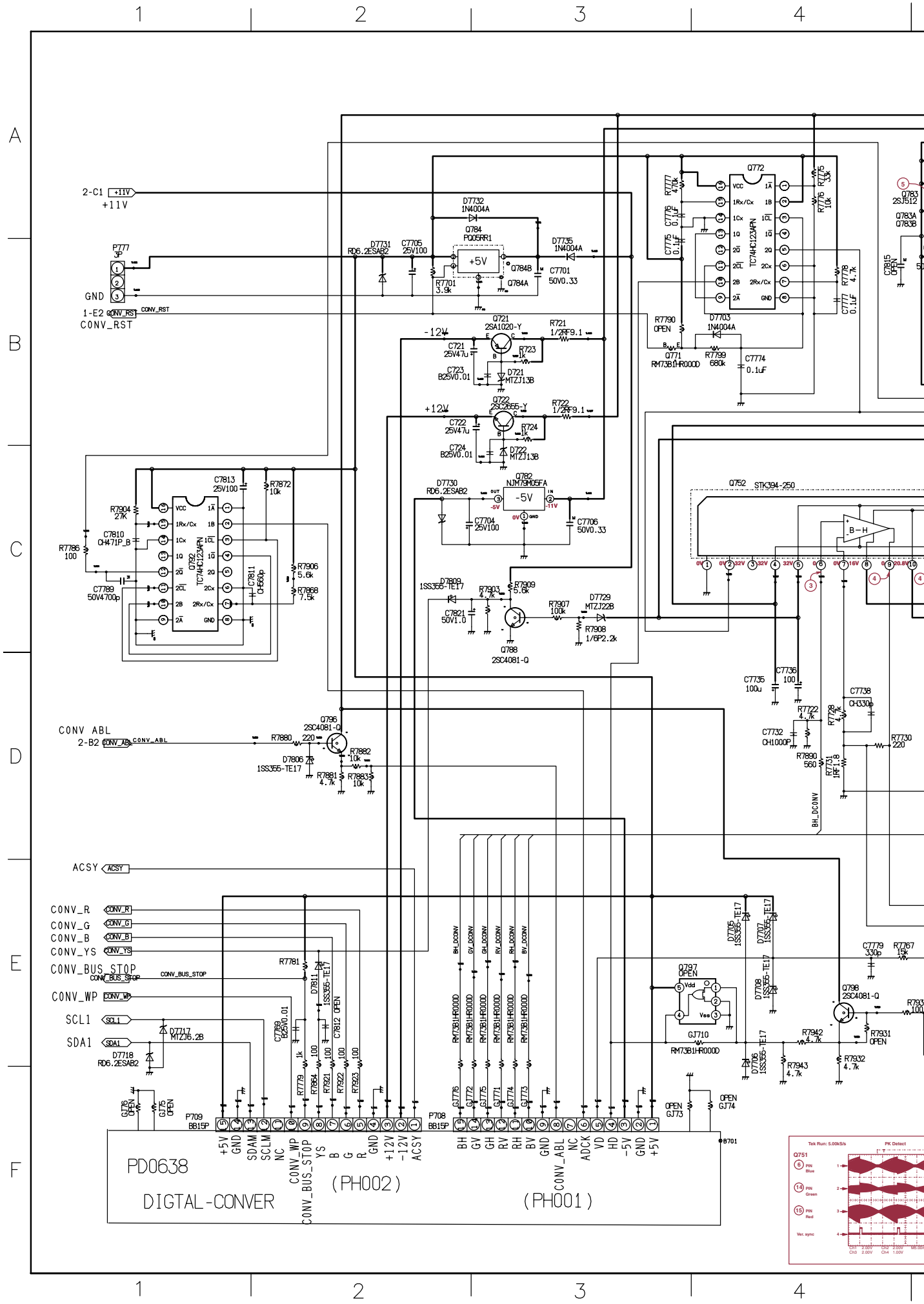

TO CRT-DR
5P_2.5mm_1.5A_Beige
P404
1-E6 3-B8 +16V
1-D7 V_OUT
1-D7 V_NF
ABL
1-C1 3-E5 AFC
ABL_SW
EW_NF
3-E5 AFC_2
EW_DRIVE
NF_DRIVE
3-D1 1-B1 3-E6 CONV_ABL 9V_1
P411
6P_2.5mm_1.5A_Beige
TO POWER
+11V
GND
X_RAY
GND
+5V-1
OVP
HV_DET_OUT
+11V
3-A1
OVP
D450
FR105-FL
EU2A
TO POWER
+120V
+120V
+120V
NC
GND(+120V)
GND(+120V)
GND(+120V)
P410
7P_2.5mm_1.5A_Beige
16V_2
H_OUT
R101
2R18k
1-B1 TONER_32V
Q241
2SC2482
R244 1/6P120k
R246 1/6P4.7k
R248 OPEN
R242 1/6P22kG
R241 1/6P22kG
R243 1/6P33kG
R240 1/6P15kG
C515 63V0.10
C221 63V0.10
R245 1/6P4.7k
R249 1/6P470k
L401 56u
C405 63V0.10
D401 AG01
R406 1R6.8k
D402 FR105-FL EU2A
R405 1/6P100
R404 1/6P2.7k
R447 1R47k
D492 MTZJ10B
Q409 KTC3198Y
Q408 KTA1266Y
D491 1SS133
R496 1/6P10k
R494 470F
R492 1.2kF
R497 1/6P10
R499 1/6P1k
R498 1/6P10k
R495 1/6P33k
D490 MTZJ6.2B
R433 220F
C491 16V10
TE482
TE481
R416 2R100
T401 TLN1080AH
Q404 2SC5859
Q404A
C450 25V1000
R414 1/4RF27
Q406 KTC3198Y
C416 100V22u
C401 500V3300p
Q402 2SK941
R415 1/6P1k
Q405 KTA1266Y
R413 1/6P100
D411 MTZJ18B
R403 1R100
C402 500V390p
C440 1800VH100p
C444 1800VH330p
C443 1800VH5100p
D404 ERC06-15L
D461 FMQ-33J
D461A
C467 PP_630V6.8n_J
C468 PP_630V6.8n_J
L403 TEM2011AA
C464 250V3.3u
L402 TLN3534
C432 50V0.033u
R446 1/6P10k
R448 1/6P5.6k
R449 1/6P1.5k
L406 TLN3351AD
R410 3R22
R409 3R22
C449 500V220p
R470 1/6P220k
D425
L408 TEM2014
FR105-FL EU2A
R469 1/6P100
Q425 FET 2SK2920
Q428 KTC3198Y
D426 MTZJ18B
R490 1/2R330
R440 10k
C419 330p
R438 1k
R417 2.2k
R436 1/6P47k
R439 10k
D419 1SS355
R418 10k
D418 MTZJ33C
R437 22k
R419 10k
Q410 2SC4081-Q
Q411 2SC4081-Q
DEF/CONVER
H_DRIVE
GND

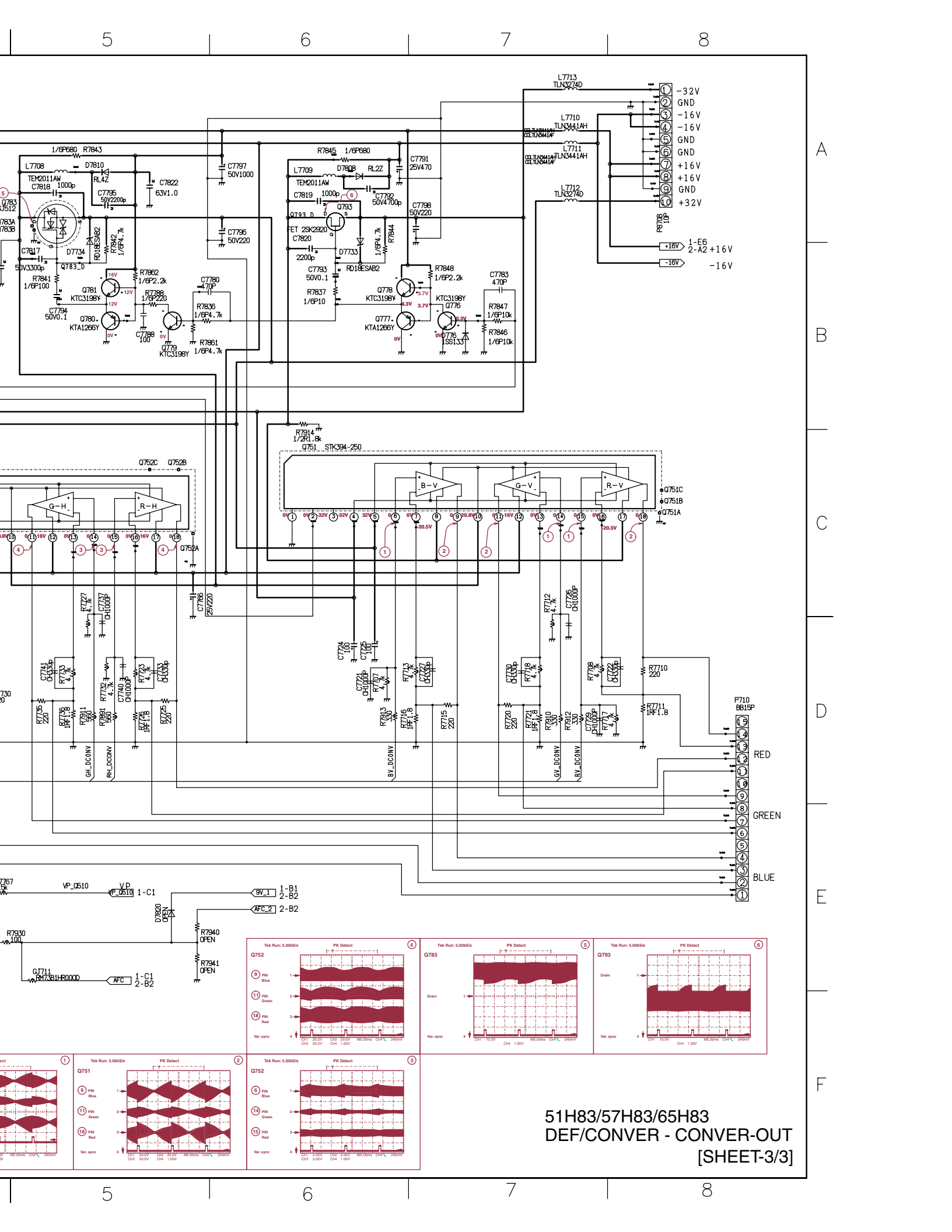




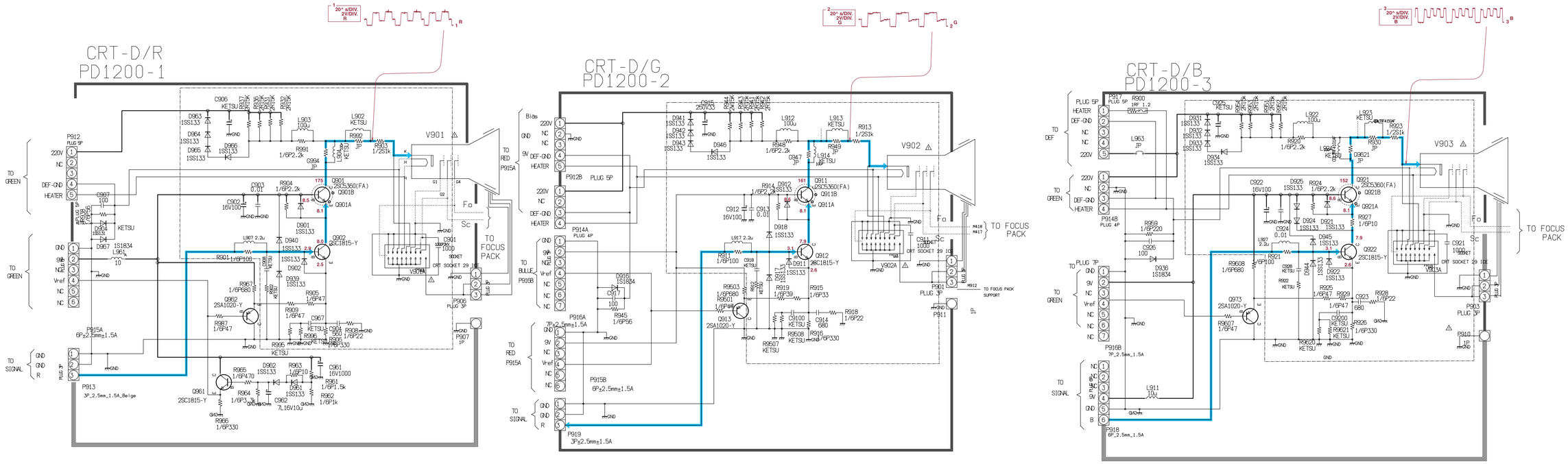
51H83/57H83/65H83
DEF/CONVER - DEF
[SHEET-2/3]


2-C1 +11V
+11V
P777
GND
1-E2 CONV_RST
CONV_RST
D7732 1N4004A
D7731 RD6.2ESAB2
C7705 25V100
D784 PQ05RR1
+5V
D7735 1N4004A
C7848
C7701 50V0.33
R7701 3.9k
-12V
Q721 2SA1020-Y
R721 1/2PF9.1
C721 25V4.7u
R723 1k
C723 B25V0.01
D721 MTZJ13B
+12V
Q722 2SC2655-Y
R722 1/2PF9.1
C722 25V4.7u
R724 1k
C724 B25V0.01
D722 MTZJ13B
Q782 NJM79M05FA
-5V
D7730 RD6.2ESAB2
C7704 25V100
C7706 50V0.33
C7813 25V100
R7872 10k
R7904 27K
C7819 CH471P_B
R7886 100
C7889 50V4700p
IC782 TC74HC123AFN
R7906 5.6k
R7908 7.5k
C7811 CH560p
D7809 1SS355-TE17
R7903 4.7k
R7909 5.6k
C7921 50V1.0
Q788 2SC4081-Q
R7907 100k
D7729 MTZJ22B
R7908 1/6P2.2k
Q772 TC74HC123AFN
R7777 10k
C7776 0.1uF
C7775 0.1uF
R7776 10k
R7778 4.7k
C7777 0.1uF
R7790 OPEN
D7703 1N4004A
Q771 RM73B1HR000D
R7799 680k
C7774 0.1uF
1/6P680 R7843
L7708 TEM2011AW
C7818 1000p
D7810 RL4Z
C7795 50V2200p
Q783 2SJ512
Q783A Q783B
C7815 OPEN
C7817 50V3300p
D7734 RD18ESAB2
R7842 1/6P4.7k
R7841 1/6P100
R7862 1/6P2.2k
C7794 50V0.1
Q781 KTC3198Y
Q780 KTA1266Y
R7788 1/6P220
C7788 100
C7780 470P
R7836 1/6P4.7k
Q779 KTC3198Y
R7861 1/6P4.7k
C7797 50V1000
C7796 50V220
R7845 1/6P680
L7709 TEM2011AW
C7819 1000p
D7808 RL2Z
C7792 50V4700p
C7791 25V470
C7798 50V220
Q793 2SK2920
C7820 2200p
C7793 50V0.1
R7837 1/6P10
D7733 RD18ESAB2
R7844 1/6P4.7k
R7848 1/6P2.2k
C7783 470P
Q778 KTC3198Y
Q777 KTA1266Y
Q776 KTC3198Y
D7736 1SS133
R7847 1/6P10k
R7846 1/6P10k
L7713 TLN3274D
L7710 TLN3441AH
L7711 TLN3441AH
L7712 TLN3274D
-32V
GND
-16V
-16V
GND
GND
+16V
+16V
GND
+32V
P8708 16P
+16V
-16V
1-E6
2-A2 +16V
-16V
R7914 1/2R1.8k
Q751 STK394-250
Q752 STK394-250
Q752C Q752B
B-H G-H R-H
B-V G-V R-V
5V
Q751C
Q751B
Q751A
Q752A
C7766 25V220
C7735 100u
C7736 100
C7722 4.7k
C7732 CH1000P
C7738 CH330p
R7890 560
R7730 220
R7731 HF1.8
R7727 4.7k
C7737 CH1000P
C7740 CH1000P
R7735 220
R7736 HF1.8
R7741 4.7k
R7738 HF1.8
R7742 4.7k
R7743 4.7k
C7739 CH1000P
R7725 220
R7726 HF1.8
C7726 CH1000P
C7725 100
C7721 CH1000P
R7707 4.7k
R7713 4.7k
C7722 CH1000P
R7716 HF1.8
R7715 220
R7712 4.7k
C7726 CH1000P
R7718 4.7k
C7739 CH330p
R7720 220
R7721 HF1.8
R7708 4.7k
C7722 CH1000P
R7710 220
R7711 HF1.8
R7910 330
R7912 330
C7729 CH1000P
R7717 4.7k
P710 BB15P
RED
GREEN
BLUE
BH_DCONV
GH_DCONV
RH_DCONV
BV_DCONV
GV_DCONV
RV_DCONV
CONV ABL
2-B2 CONV_ABL
Q796 2SC4081-Q
R7880 220
D7806 1SS355-TE17
R7882 10k
R7891 4.7k
R7883 10k
ACSY
CONV_R
CONV_G
CONV_B
CONV_YS
CONV_BUS_STOP
CONV_WP
SCL1
SDA1
D7717 MTZJ6.2B
D7718 RD6.2ESAB2
R7781
D7811 1SS355-TE17
C7789 B25V0.01
C7812 OPEN
R7779 1k
R7864 100
R7921 100
R7922 100
R7923 100
GJ76 OPEN
GJ75 OPEN
P709 BB15P
P708 BB15P
+5V GND SDAM SCLM NC CONV_WP CONV_BUS_STOP YS B G R GND +12V -12V ACSY
BH GV GH RV RH BV GND CONV_ABL NC ADCK VD HD -5V GND +5V
P8701
PD0638
DIGTAL-CONVER
(PH002)
(PH001)
D7705 1SS355-TE17
D7707 1SS355-TE17
D7708 1SS355-TE17
D7706 1SS355-TE17
Q797 OPEN
GJ710 RM73B1HR000D
Q798 2SC4081-Q
C7779 330p
R7767 10
VP_0510
VP
VP_0510 1-C1
D7820 OPEN
R7930 100
R7940 OPEN
R7941 OPEN
R7931 OPEN
R7942 4.7k
R7943 4.7k
R7932 4.7k
GJ711 RM73B1HR000D
AFC
AFC 1-C1
2-B2
9V_1 1-B1
2-B2
AFC_2 2-B2
OPEN GJ73
OPEN GJ74
Tek Run: 5.00kS/s PK Detect
Q752 Blue Green Red Ver. sync
Q783 Drain
Q793 Drain
51H83/57H83/65H83
DEF/CONVER - CONVER-OUT
[SHEET-3/3]

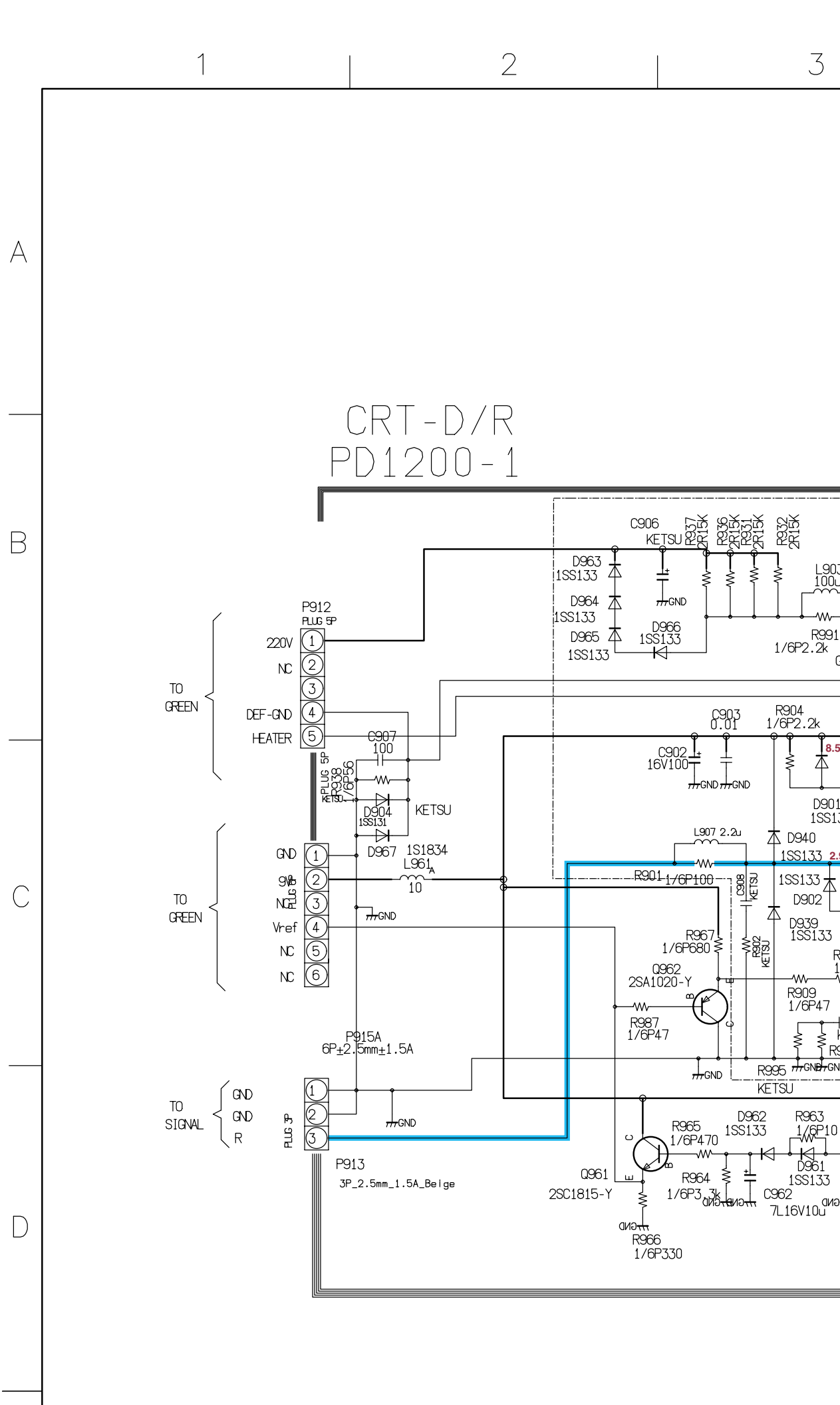

2-C1 +11V
+11V
P777
GND
1-E2 CONV_RST
CONV_RST
D7732 1N4004A
D7731 RD6.2ESAB2
C7705 25V100
Q784 FQ05RR1
+5V
D7735 1N4004A
R7701 3.9k
C7701 50V0.33
Q772
TC74HC123APN
R7790 OPEN
D7703 1N4004A
Q771 RM73B1HR000D
R7799 680k
C7774 0.1uF
-12V
C721 25V47u
C723 B25V0.01
Q721 2SA1020-Y
R721 1/2RF9.1
R723 1k
D721 MTZJ13B
+12V
C722 25V47u
C724 B25V0.01
Q722 2SC2655-Y
R722 1/2RF9.1
R724 1k
D722 MTZJ13B
D7730 RD6.2ESAB2
Q782 NJM79M05FA
-5V
C7704 25V100
C7706 50V0.33
C7813 25V100
R7872 10k
R7904 27K
C7810 CH471P_B
R7886 100
C7789 50V4700p
C7811 CH680p
R7906 5.6k
R7868 7.5k
Q752 STK394-250
B-H
D7809 1SS355-TE17
C7821 50V1.0
R7903 4.7k
R7909 5.6k
R7907 100k
D7729 MTZJ22B
R7908 1/6P2.2k
Q788 2SC4081-Q
C7735 100u
C7736 100
C7738 CH330p
R7722 4.7k
R7728 4.7k
C7732 CH1000P
R7890 560
R7730 220
BH_DCONV
CONV ABL
2-B2 CONV_ABL
Q796 2SC4081-Q
R7880 220
R7882 10k
D7806 1SS355-TE17
R7881 4.7k
R7883 10k
ACSY
CONV_R
CONV_G
CONV_B
CONV_YS
CONV_BUS_STOP
CONV_WP
SCL1
SDA1
D7717 MTZJ6.2B
D7718 RD6.2ESAB2
R7781
D7811 1SS355-TE17
C7812 OPEN
C7789 B25V0.01
R7779 1k
R7864 100
R7921 100
R7922 100
R7923 100
GJ76 OPEN
GJ75 OPEN
P709 BB15P
P708 BB15P
BH_DCONV
GV_DCONV
GH_DCONV
RV_DCONV
RH_DCONV
BV_DCONV
RM73B1HR000D
GJ772
GJ775
GJ771
GJ774
GJ773
GJ776
D7705 1SS355-TE17
D7707 1SS355-TE17
D7708 1SS355-TE17
D7706 1SS355-TE17
Q797 OPEN
GJ710
RM73B1HR000D
C7779 330p
R7767 15k
Q798 2SC4081-Q
R7942 4.7k
R7931 OPEN
R7932 4.7k
R7943 4.7k
OPEN GJ74
OPEN GJ73
B701
+5V GND SDAM SCLM NC CONV_WP CONV_BUS_STOP YS B G R GND +12V -12V ACSY
BH GV GH RV RH BV GND CONV_ABL NC ADCK VD HD -5V GND +5V
PD0638
DIGTAL-CONVER
(PH002)
(PH001)
Tek Run: 5.00kS/s
PK Detect
Q751
6 PIN Blue
14 PIN Green
15 PIN Red
Ver. sync

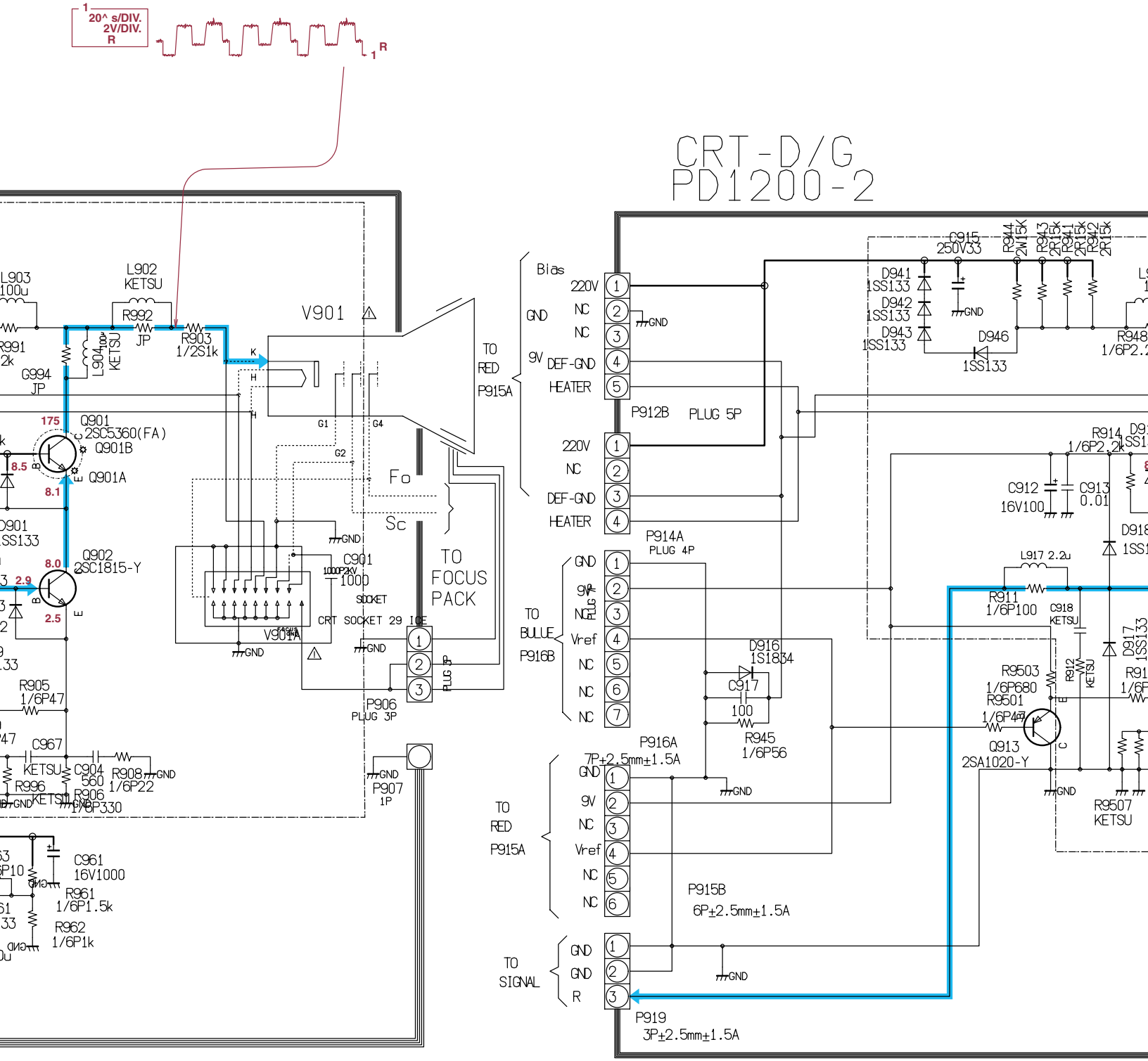


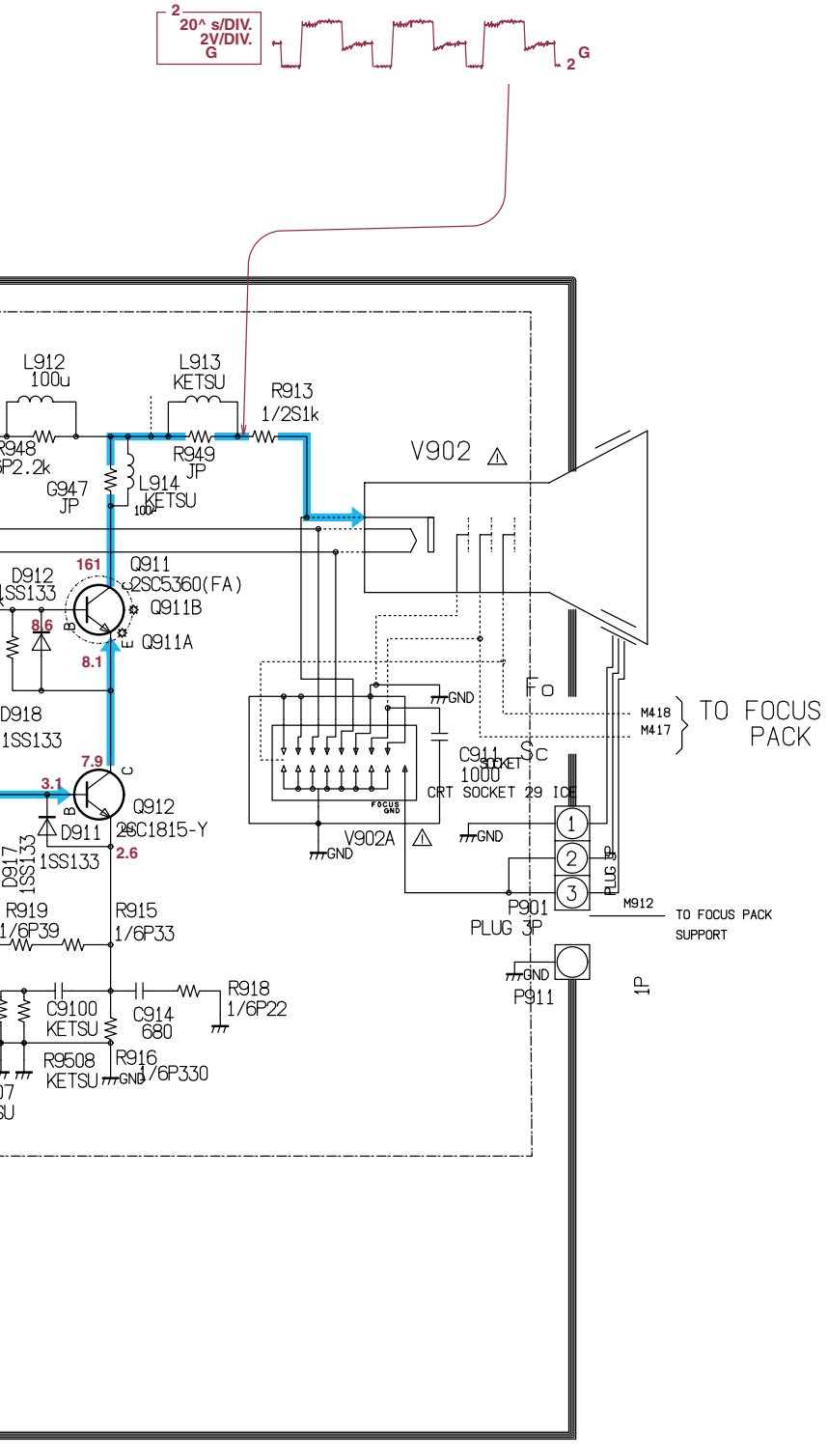
51H83/57H83/65H83
DEF/CONVER - CONVER-OUT
[SHEET-3/3]



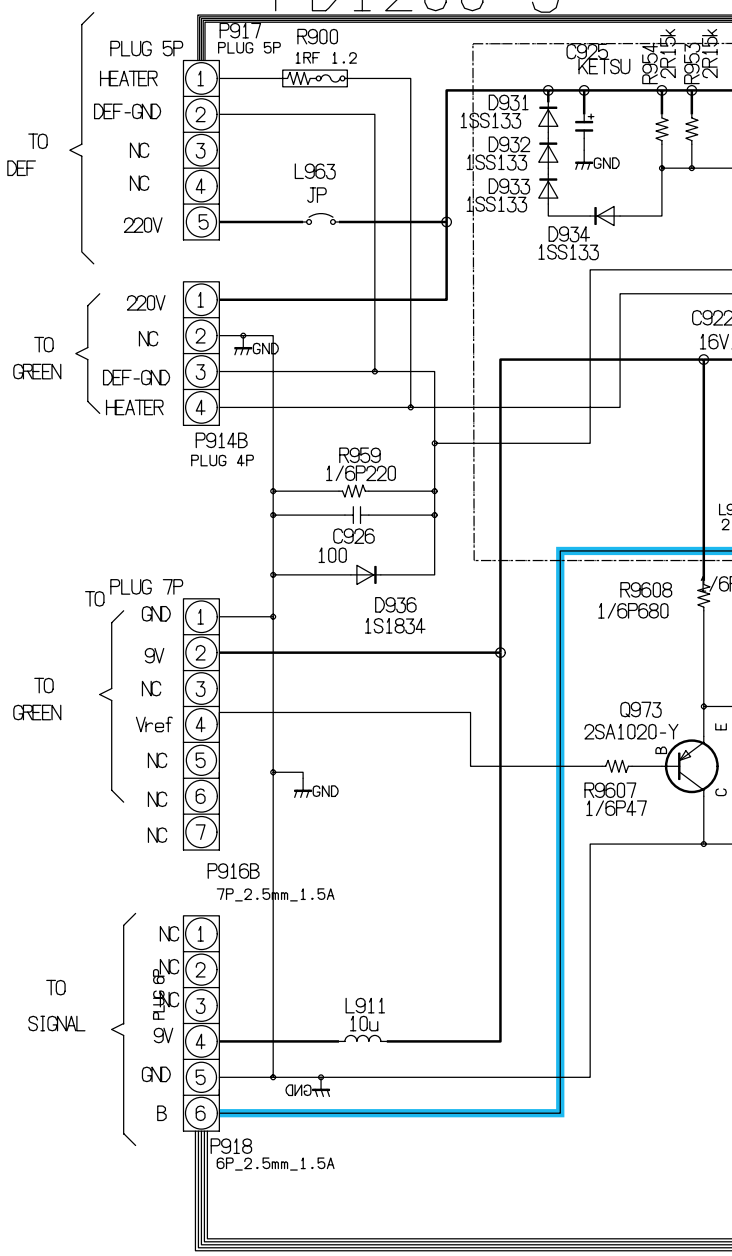
51H83
CRT/SVM

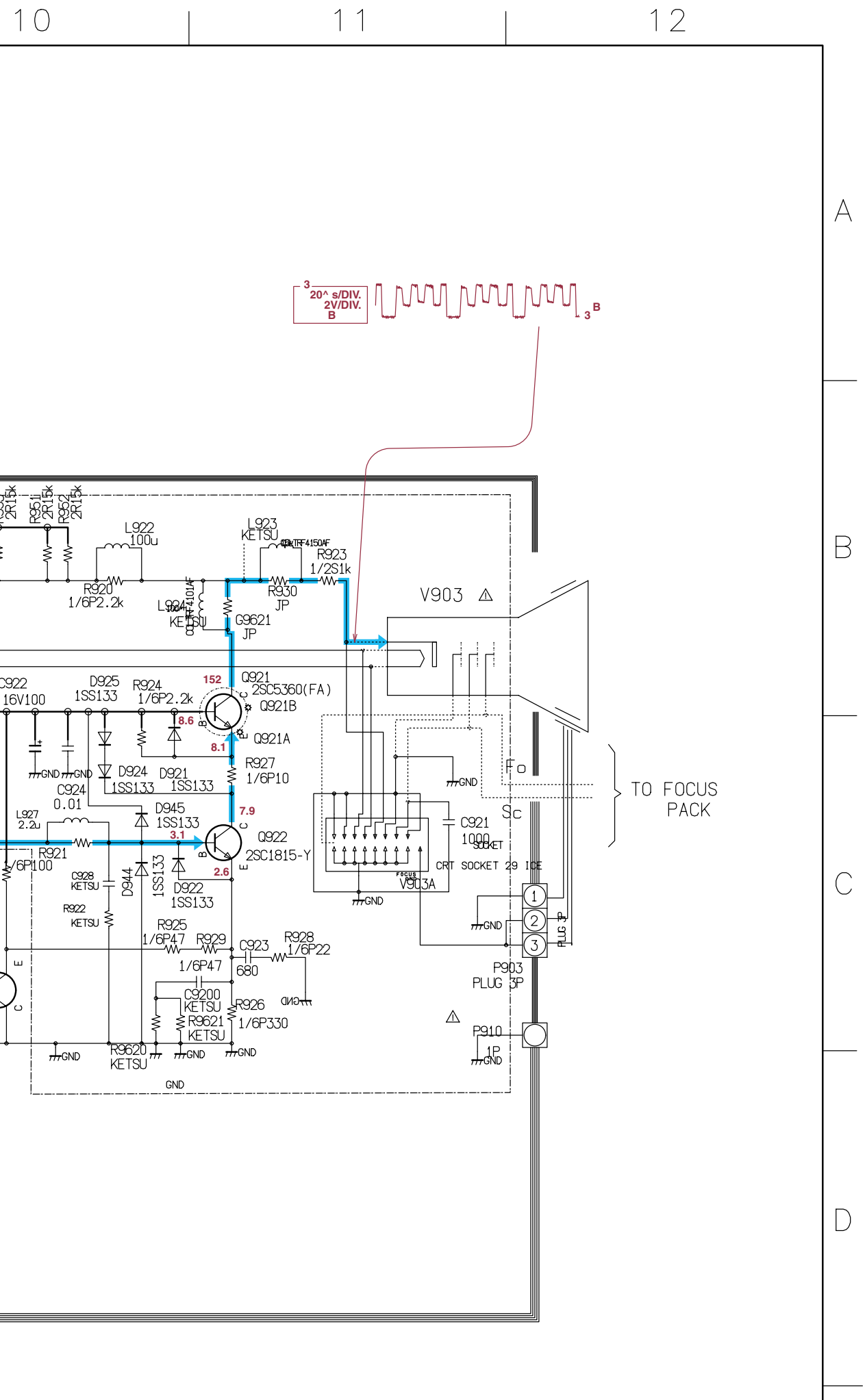

CRT-D/R
PD1200-1
P912
PLUG 5P
220V
NC
DEF-GND
HEATER
TO GREEN
C906 KETSU
R937 2R15K
R936 2R15K
R931 2R15K
R932 2R15K
D963 1SS133
D964 1SS133
D965 1SS133
D966 1SS133
C907 100
R938 1/6P56
KETSU
D904 1SS131
D967 1S1834
C903 0.01
R904 1/6P2.2k
C902 16V100
L907 2.2u
D940 1SS133
R901 1/6P100
C908 KETSU
D902 1SS133
D939 1SS133
R967 1/6P680
R902 KETSU
Q962 2SA1020-Y
R909 1/6P47
R987 1/6P47
L961 10
GND
9V
NC
Vref
NC
NC
TO GREEN
P915A
6P±2.5mm±1.5A
TO SIGNAL
GND
GND
R
PLUG 3P
P913
3P_2.5mm_1.5A_Beige
R995
KETSU
R965 1/6P470
D962 1SS133
R963 1/6P10
Q961 2SC1815-Y
R964 1/6P3.3k
C962 7L16V10u
D961 1SS133
R966 1/6P330


1
20^ s/DIV.
2V/DIV.
R
1 R
CRT-D/G
PD1200-2
L903
100u
L902
KETSU
R992
JP
R903
1/2S1k
V901
TO
RED
P915A
Bias
220V
GND
NC
NC
9V
DEF-GND
HEATER
P912B
PLUG 5P
G994
JP
L904
100u
KETSU
K
H
G1
G4
G2
Fo
Sc
TO
FOCUS
PACK
Q901
2SC5360(FA)
Q901B
Q901A
175
8.5
8.1
Q902
2SC1815-Y
8.0
2.9
2.5
C901
1000P2KV
1000
SOCKET
CRT SOCKET 29 IDE
VS01A
P906
PLUG 3P
R905
1/6P47
C967
KETSU
C904
560
R908
1/6P22
R996
R906
1/6P330
C961
16V1000
R961
1/6P1.5k
R962
1/6P1k
P907
1P
C915
250V33
R944
2W15K
R943
2R15k
R941
2R15k
R942
2R15k
D941
1SS133
D942
1SS133
D943
1SS133
D946
1SS133
R948
1/6P2.2
R914
1/6P2.2k
C912
16V100
C913
0.01
L917 2.2u
R911
1/6P100
C918
KETSU
D916
1S1834
C917
100
R945
1/6P56
P914A
PLUG 4P
TO
BULLE
P916B
GND
9V
NC
Vref
NC
NC
NC
P916A
7P±2.5mm±1.5A
TO
RED
P915A
P915B
6P±2.5mm±1.5A
TO
SIGNAL
P919
3P±2.5mm±1.5A
R9503
1/6P680
R9501
1/6P47
Q913
2SA1020-Y
R912
KETSU
R9507
KETSU

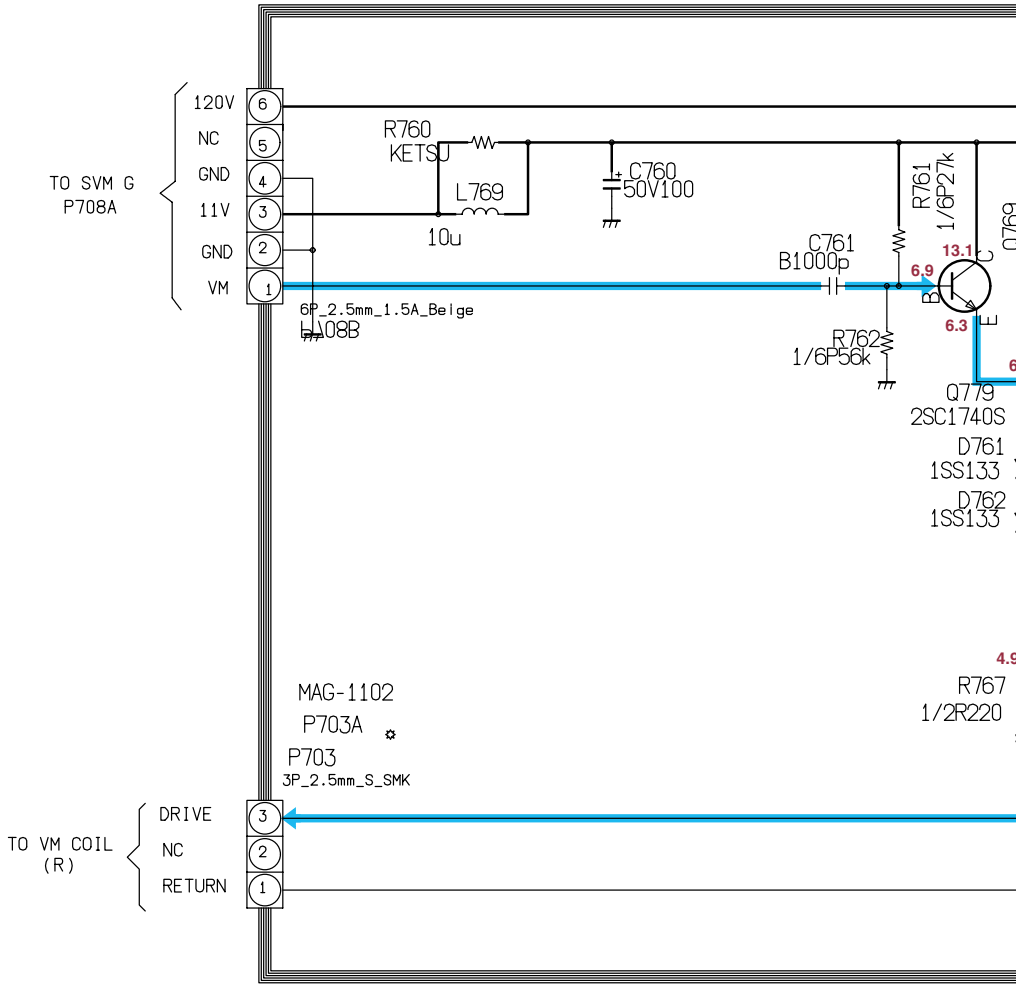


CRT-D/B PD1200-3




10
11
12
A
B
C
D
3
20^ s/DIV.
2V/DIV.
B
3 B
L922
100u
L923
KETSU
R923
1/2S1k
R920
1/6P2.2k
R930
JP
G9621
JP
V903
R951
2R15k
R952
2R15k
C922
16V100
D925
1SS133
R924
1/6P2.2k
152
Q921
2SC5360(FA)
Q921B
Q921A
8.6
8.1
R927
1/6P10
D924
1SS133
D921
1SS133
C924
0.01
D945
1SS133
7.9
3.1
Q922
2SC1815-Y
L927
2.2u
R921
1/6P100
C928
KETSU
D944
1SS133
D922
1SS133
2.6
R922
KETSU
R925
1/6P47
R929
1/6P47
C923
680
R928
1/6P22
C9200
KETSU
R926
1/6P330
R9621
KETSU
R9620
KETSU
GND
FO
SC
C921
1000
SOCKET
CRT SOCKET 29 ICE
V903A
TO FOCUS
PACK
P903
PLUG 3P
P910
1P
PLUG 3P
1
2
3

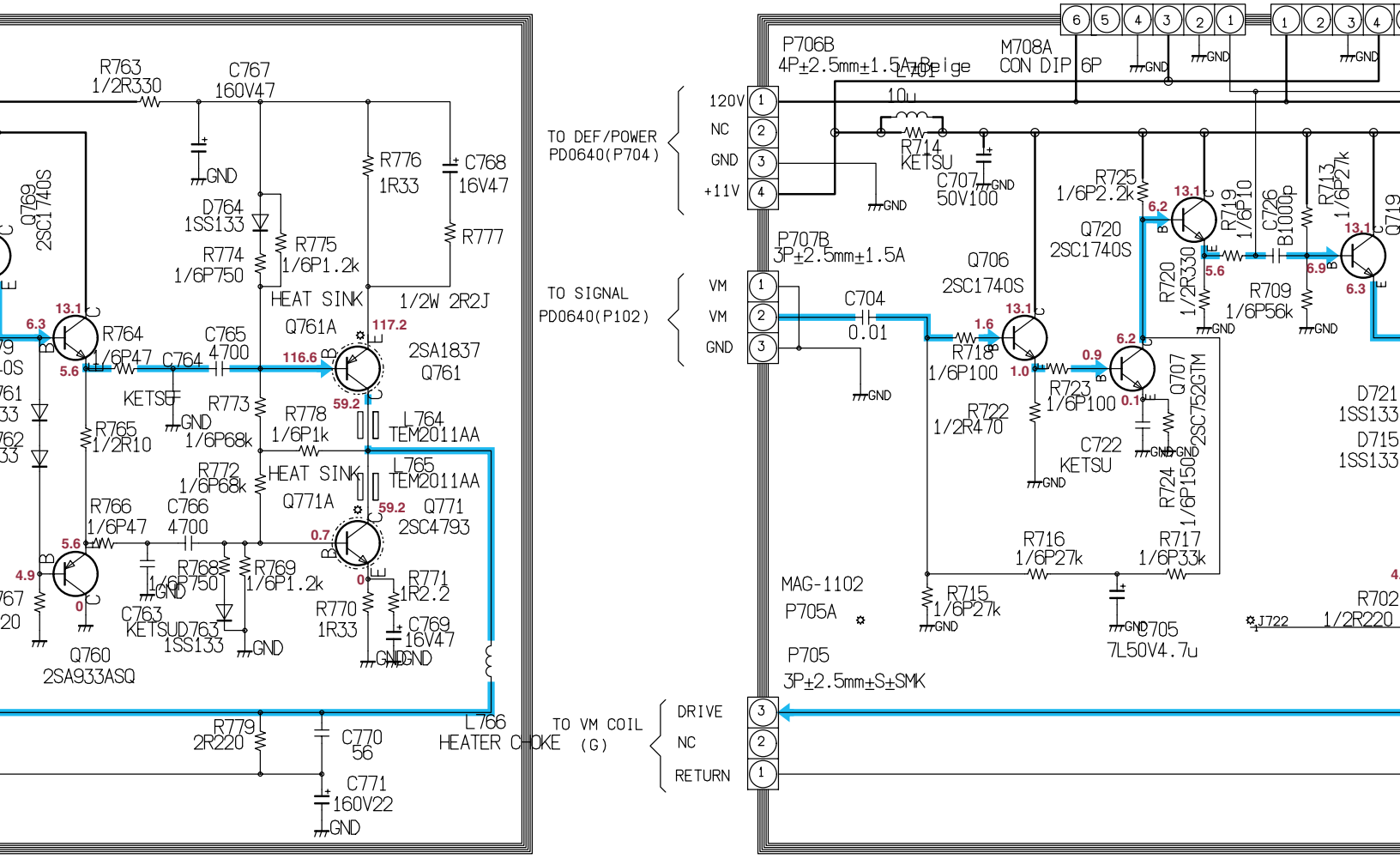
SVM/R
PD1200-4



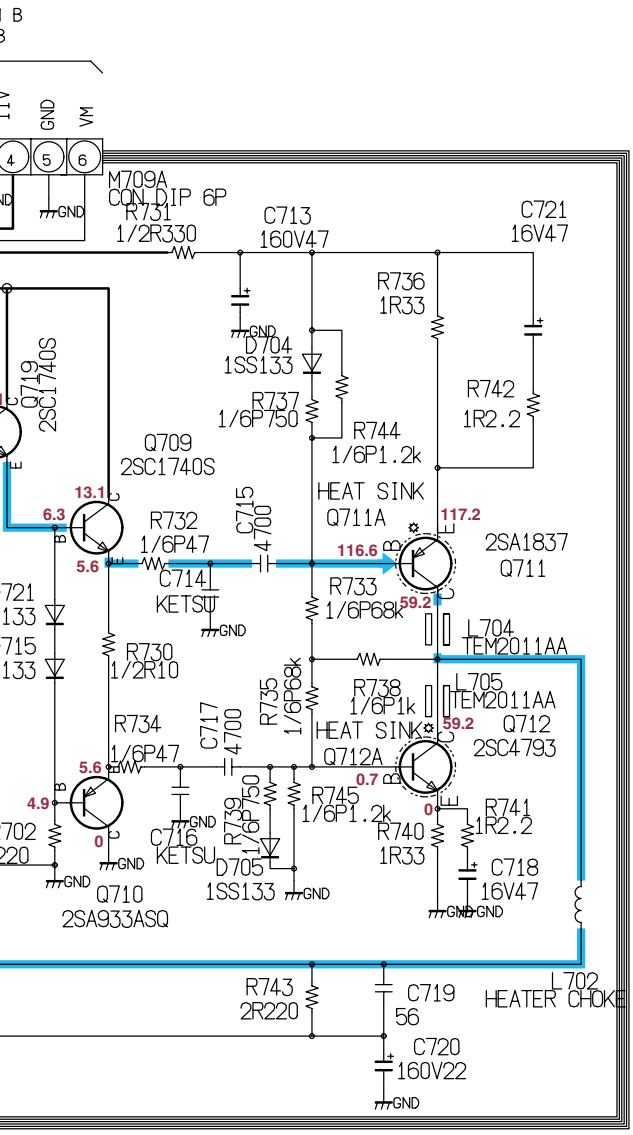
E F G H

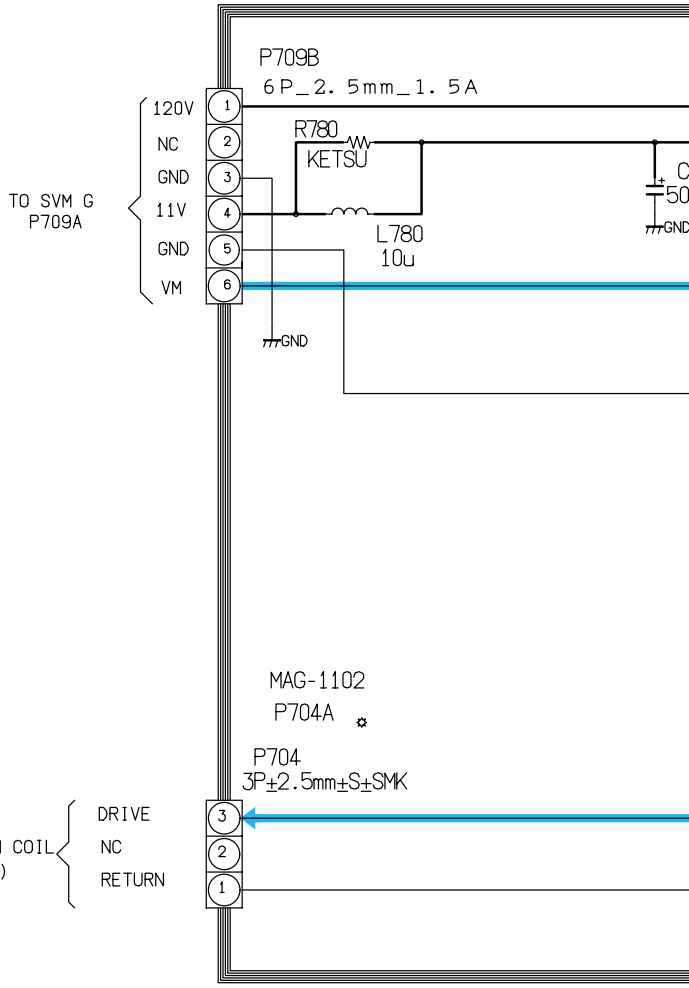
1 2 3

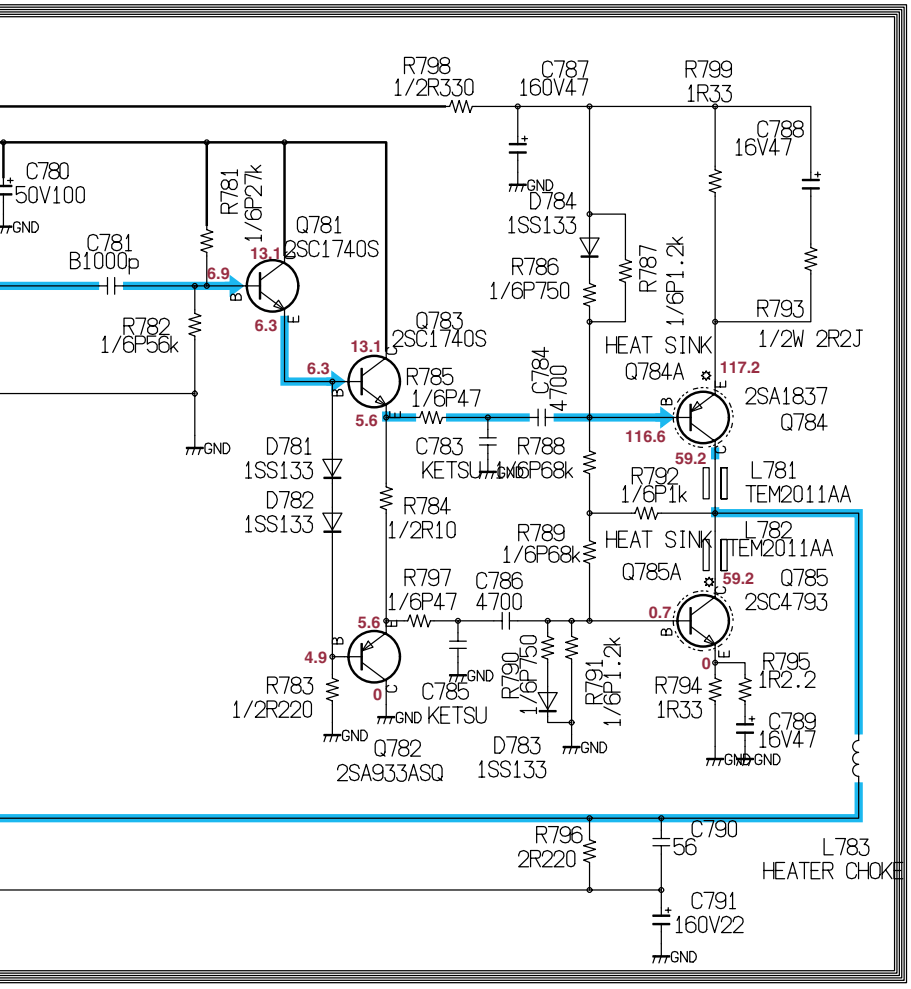
SVM/G
PD1200-5



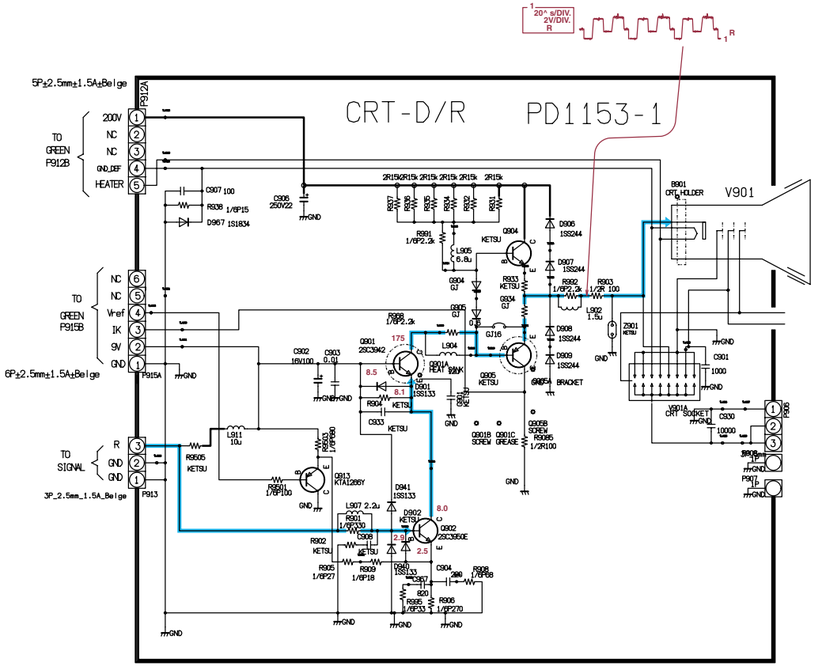
SVM/B
PD1200-6

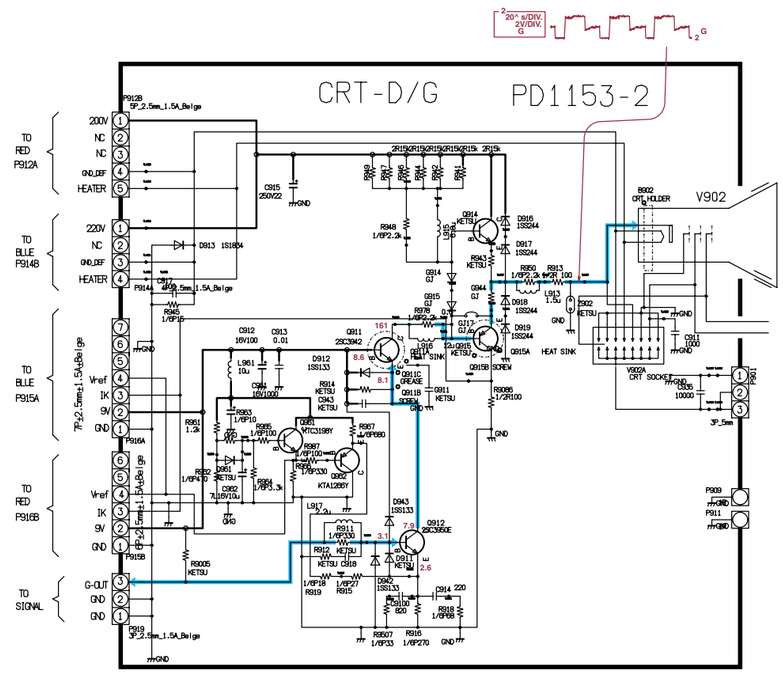


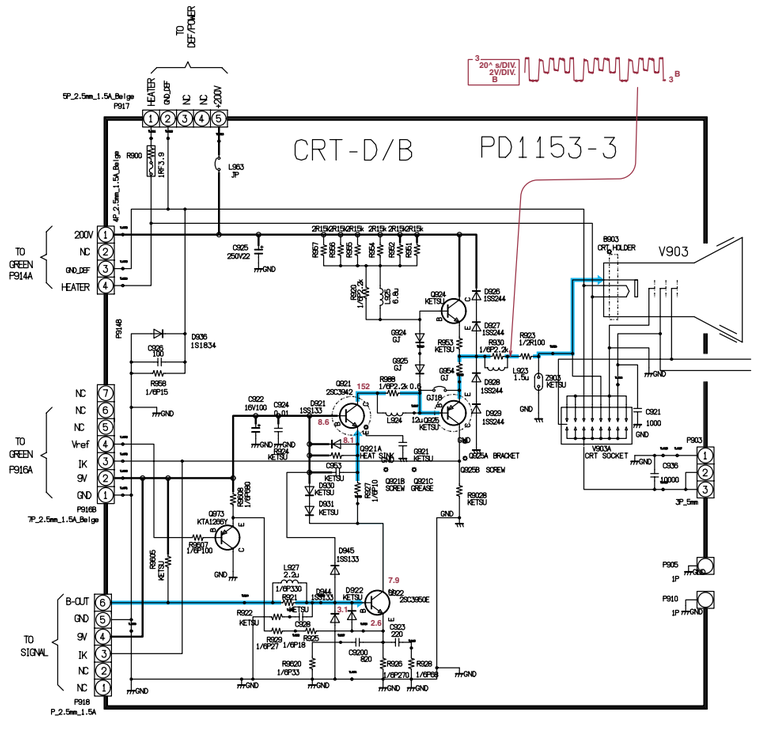




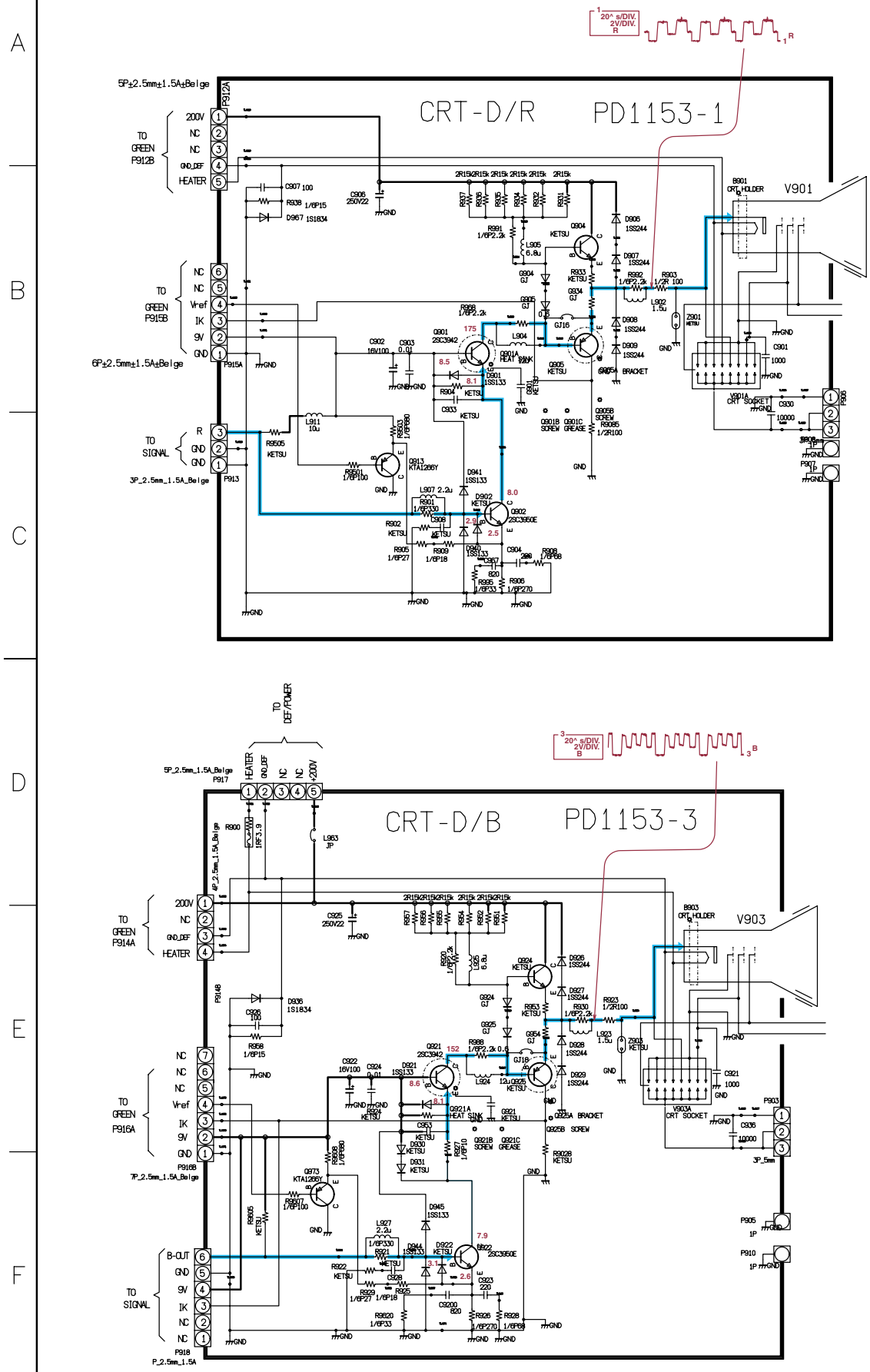
51H83
CRT/SVM

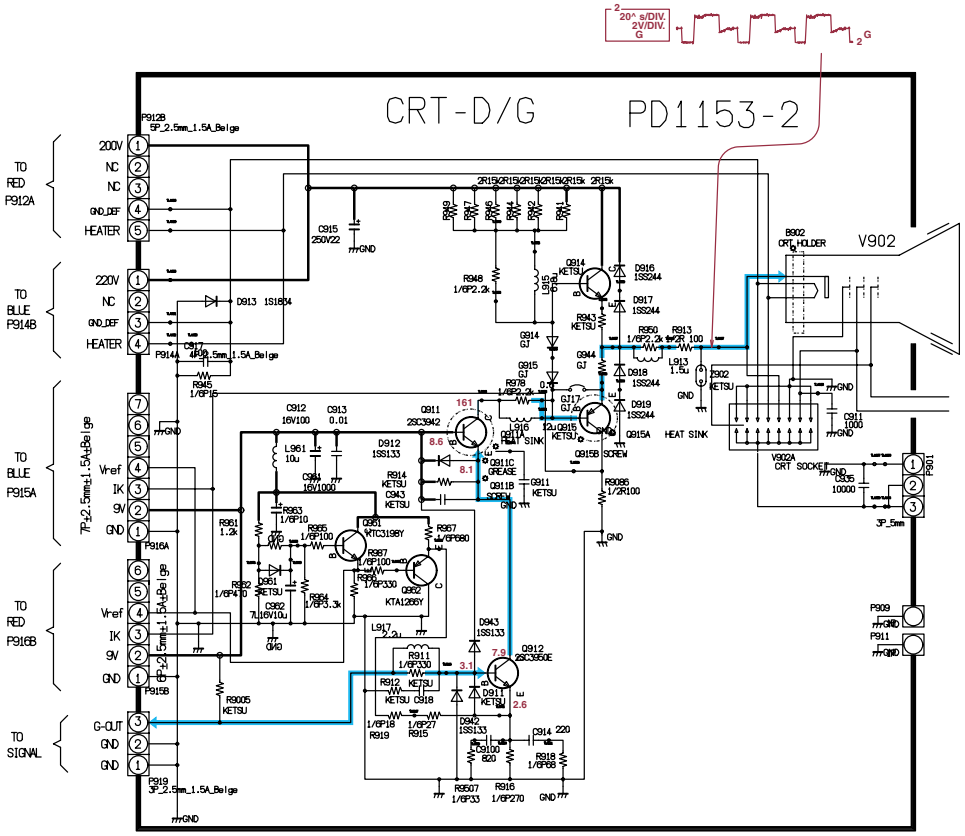






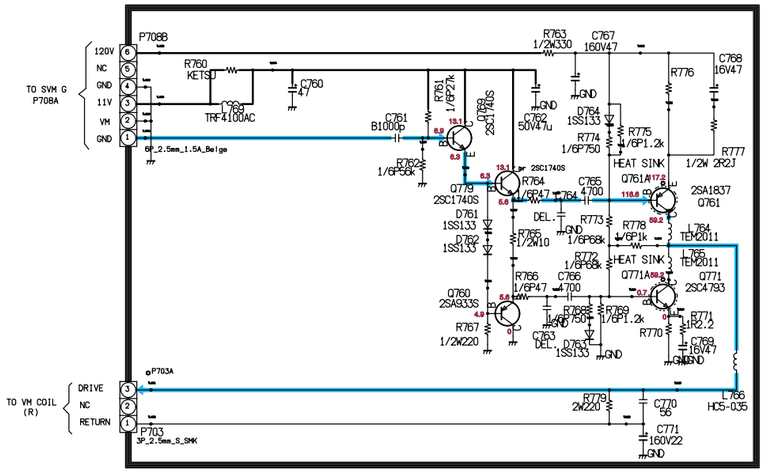
57H83/65H83
CRTSVM - CRT-DRIVE
[SHEET-1/2]


CRT-D/R PD1153-1
CRT-D/B PD1153-3
V901
V903
TO DEF/POWER
TO GREEN P912B
TO GREEN P915B
TO SIGNAL P913
TO GREEN P914A
TO GREEN P916A
TO SIGNAL P918
20^ s/DIV. 2V/DIV. R
20^ s/DIV. 2V/DIV. B
5P±2.5mm±1.5A±Belge
6P±2.5mm±1.5A±Belge
3P_2.5mm_1.5A_Belge
5P_2.5mm_1.5A_Belge
7P_2.5mm_1.5A_Belge
P_2.5mm_1.5A
CRT HOLDER
CRT SOCKET
BRACKET
SCREW
GREASE
HEAT SINK
GND
200V
HEATER
GND_DEF
Vref
9V
B-OUT
IK

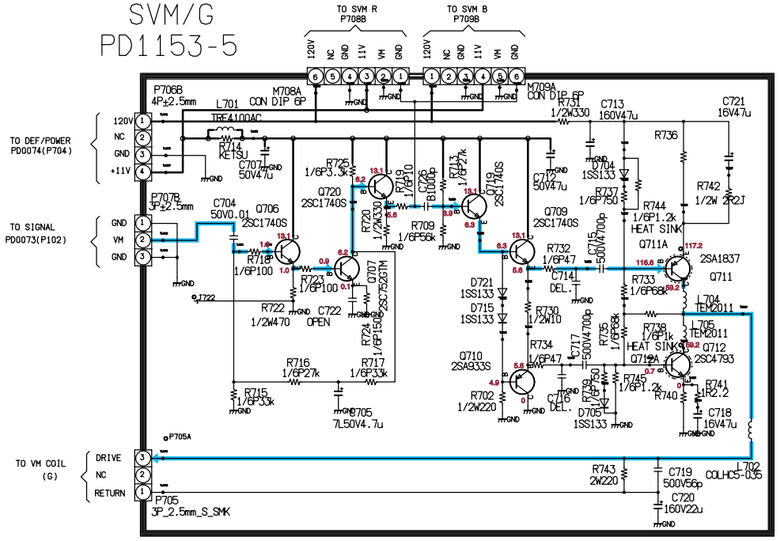


57H83/65H83
CRTSVM - CRT-DRIVE
[SHEET-1/2]

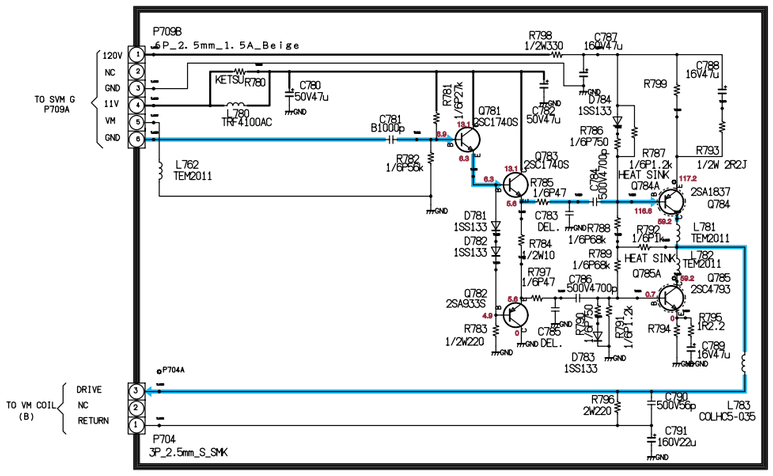
SVM/R
PD1153-4



SVM/G
PD1153-5

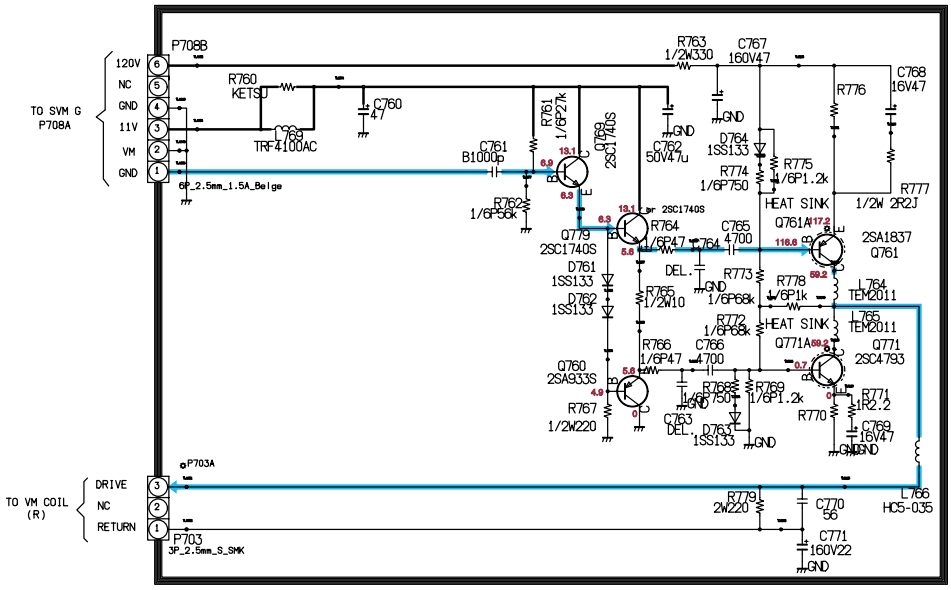


SVM/B
PD1153-6

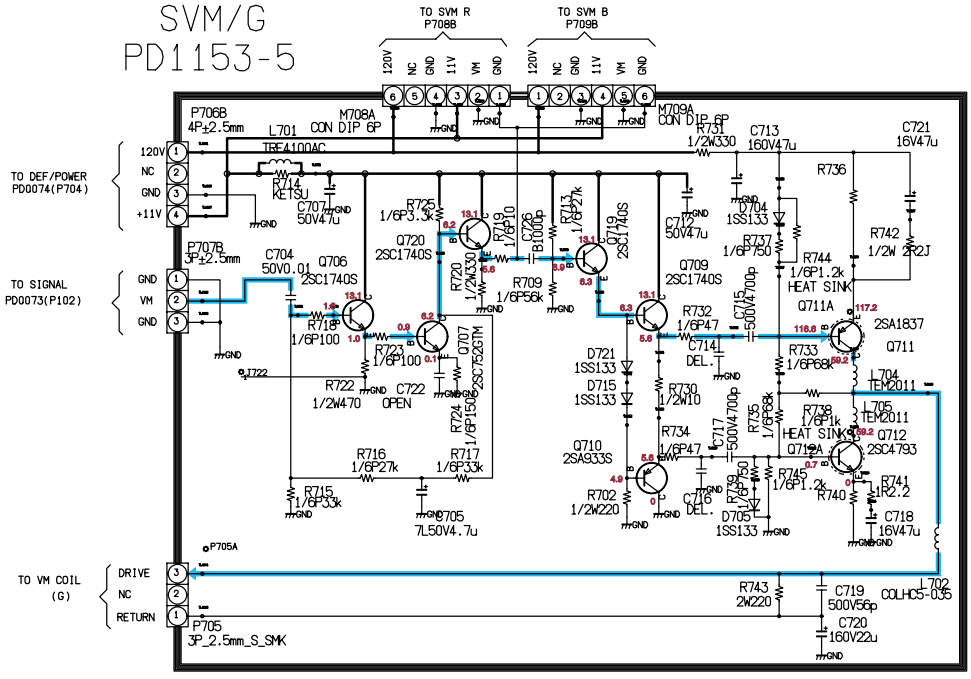


57H83/65H83
CRTSVM - SVM
[SHEET-2/2]

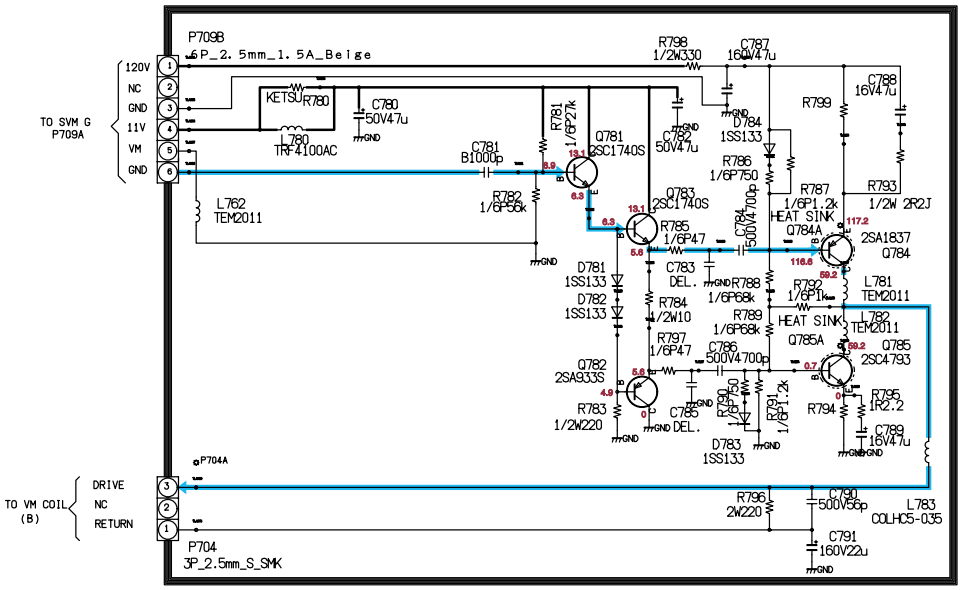
SVM/R
PD1153-4



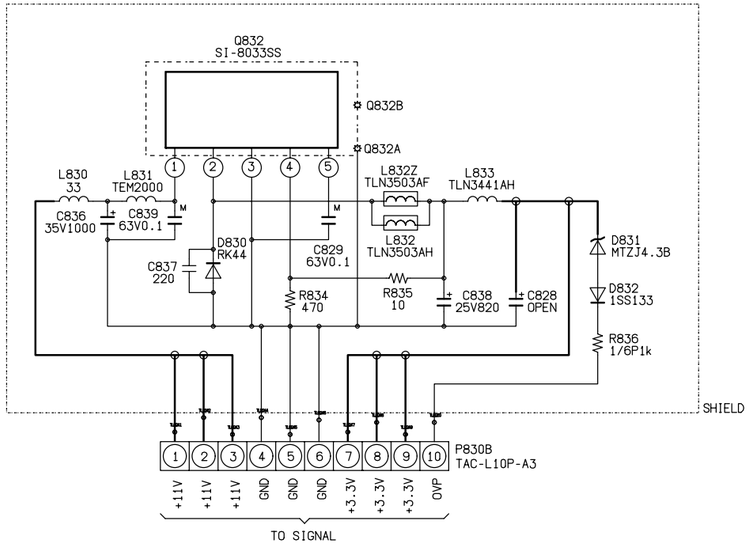
SVM/G
PD1153-5



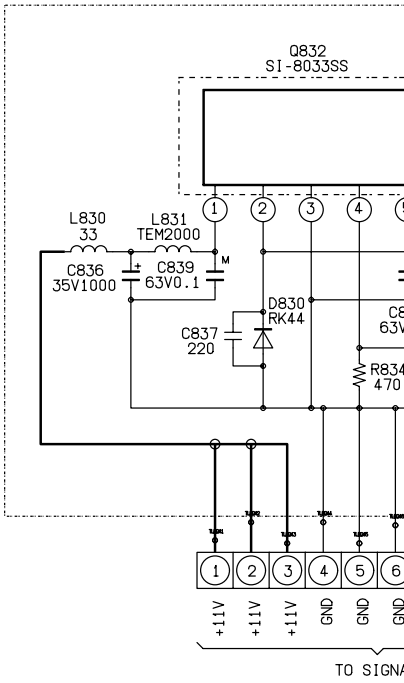
SVM/B
PD1153-6

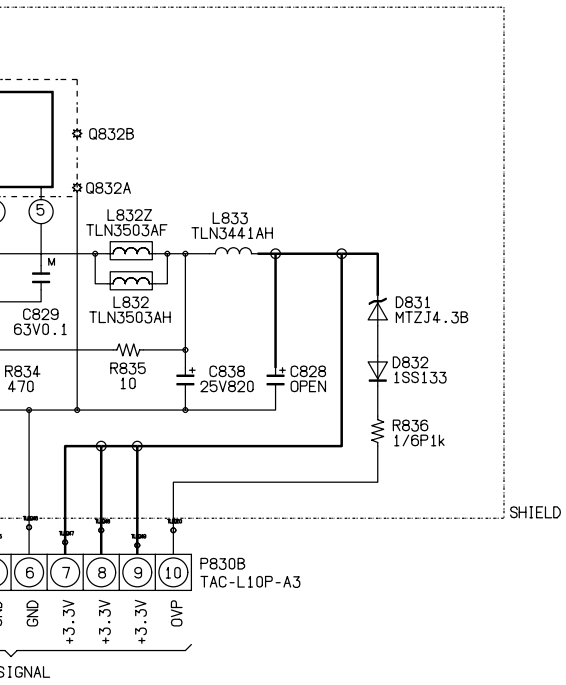


57H83/65H83
CRTSVM - SVM
[SHEET-2/2]



51H83/57H83/65H83
DD-CON(1/2)

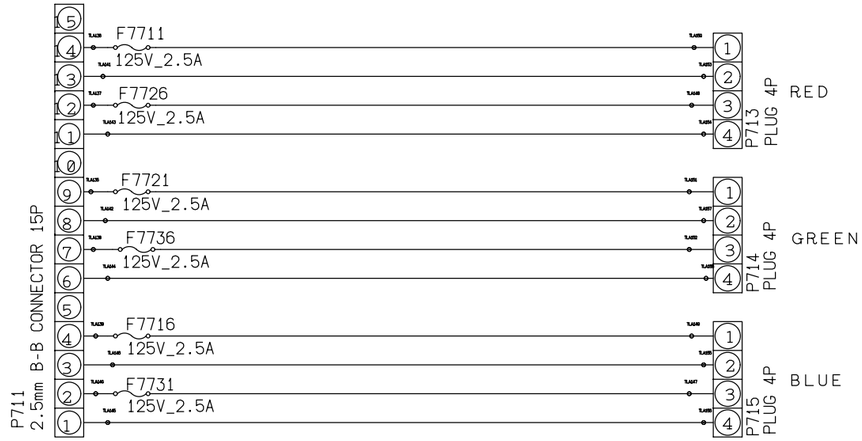

Q832
SI-8033SS
L830
33
L831
TEM2000
C836
35V1000
C839
63V0.1
D830
RK44
C837
220
R834
470
1
2
3
4
5
6
+11V
+11V
+11V
GND
GND
GND
TO SIGNA



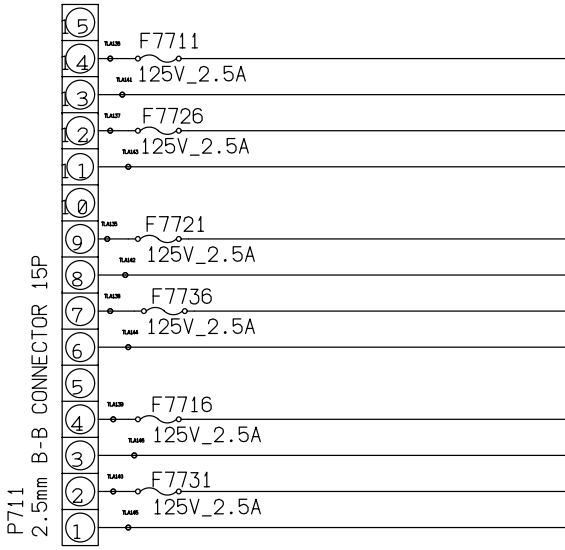
A

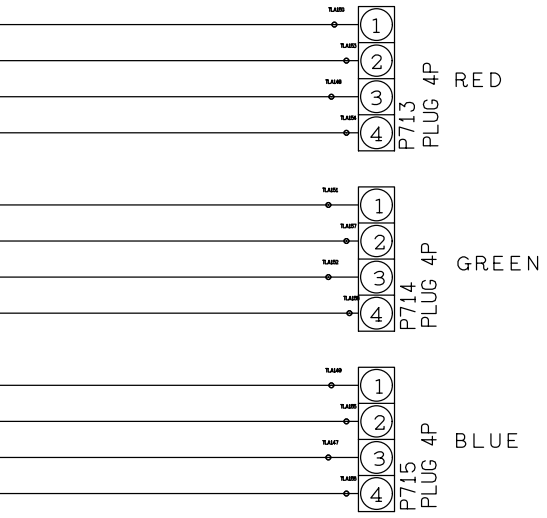
B

51H83/57H83/65H83
DD-CON(1/2)

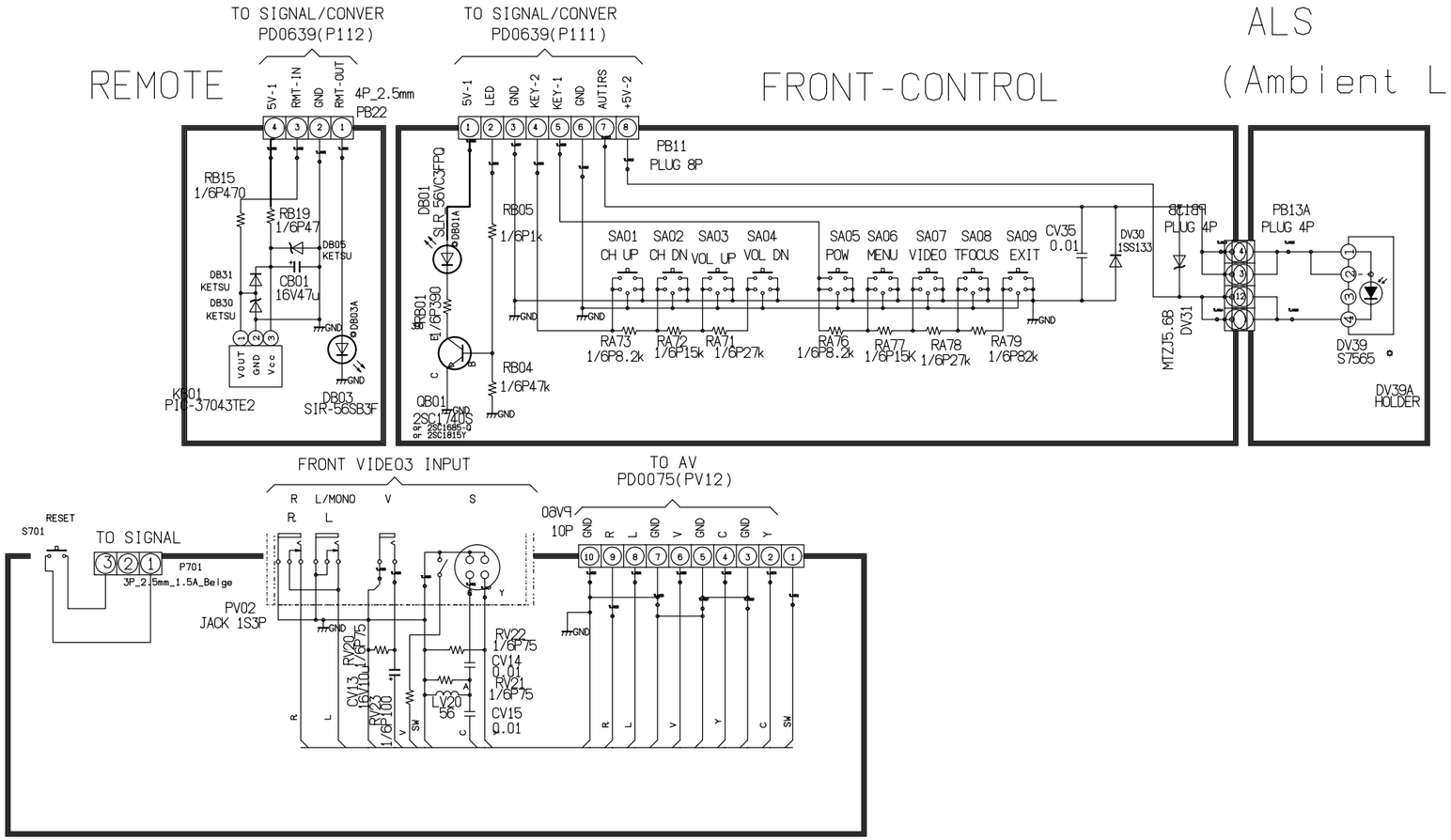


51H83/57H83/65H83
CONVER-OUT(2/2)

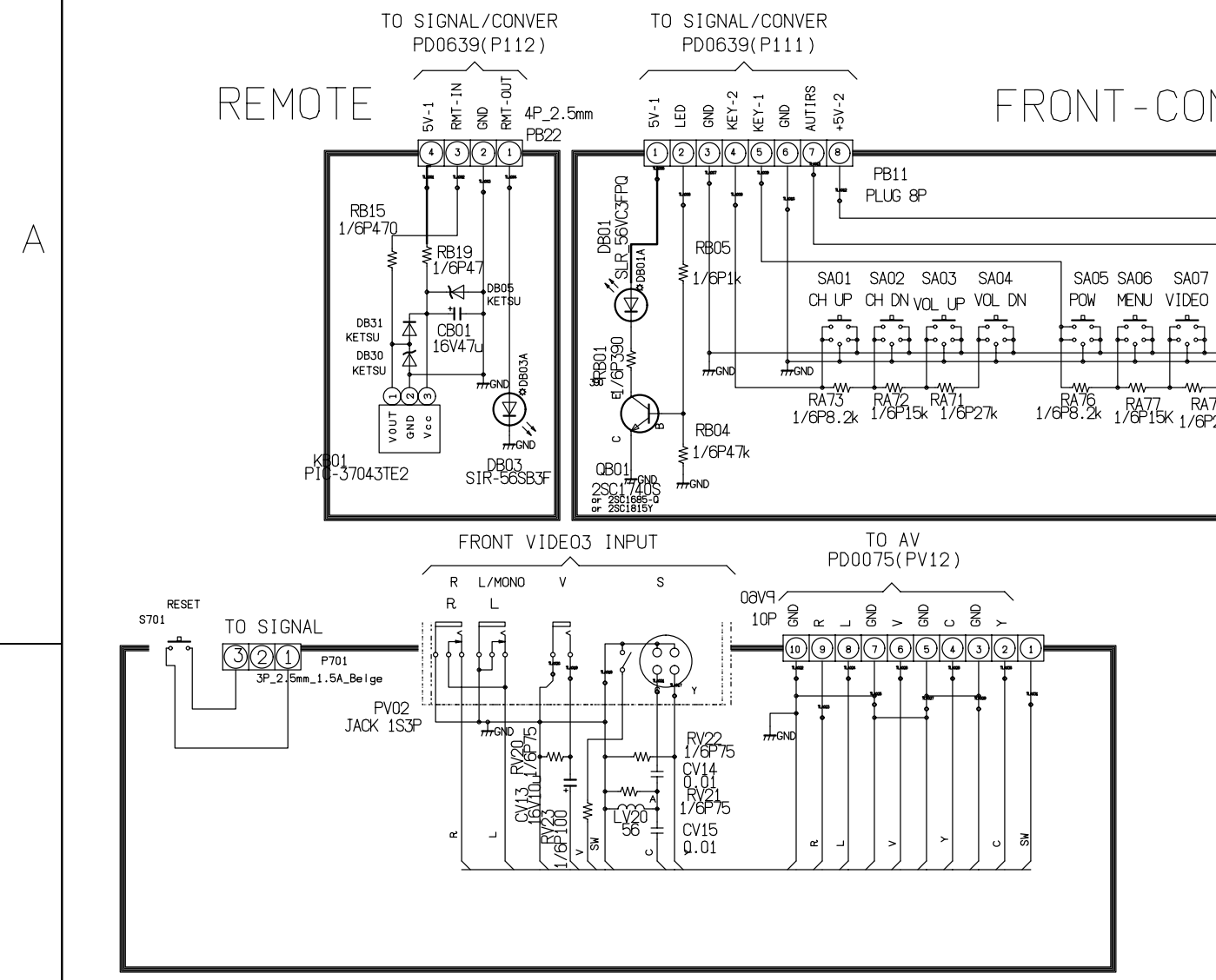

P711
2.5mm B-B CONNECTOR 15P
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
F7711
125V_2.5A
F7726
125V_2.5A
F7721
125V_2.5A
F7736
125V_2.5A
F7716
125V_2.5A
F7731
125V_2.5A



51H83/57H83/65H83
CONVER-OUT(2/2)



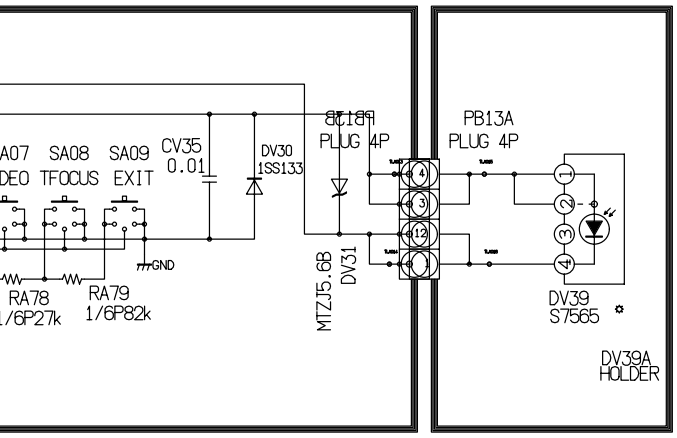
51H83/57H83/65H83
FRONT


TO SIGNAL/CONVER
PD0639(P112)
TO SIGNAL/CONVER
PD0639(P111)
REMOTE
FRONT-CON
5V-1
RMT-IN
GND
RMT-OUT
4P_2.5mm
PB22
5V-1
LED
GND
KEY-2
KEY-1
GND
AUTIRS
+5V-2
PB11
PLUG 8P
RB15
1/6P470
RB19
1/6P47
DB05
KETSU
DB31
KETSU
DB30
KETSU
CB01
16V47u
VOUT
GND
Vcc
DB03A
GND
K601
PIC-37043TE2
DB03
SIR-56SB3F
DB01
SLR 56VC3FPQ
DB01A
RB05
1/6P1k
SA01
CH UP
SA02
CH DN
SA03
VOL UP
SA04
VOL DN
SA05
POW
SA06
MENU
SA07
VIDEO
RA73
1/6P8.2k
RA72
1/6P15k
RA71
1/6P27k
RA76
1/6P8.2k
RA77
1/6P15K
RB01
1/6P390
RB04
1/6P47k
QB01
2SC1740S
2SC1685-Q
or 2SC1815Y
GND
FRONT VIDEO3 INPUT
TO AV
PD0075(PV12)
R
L/MONO
V
S
RESET
S701
TO SIGNAL
P701
3P_2.5mm_1.5A_Beige
PV02
JACK 1S3P
10P
GND
R
L
GND
V
GND
C
GND
Y
RV22
1/6P75
CV14
0.01
RV21
1/6P75
LV20
56
CV15
0.01
CV13
16V10u
RV20
1/6P75
RV23
1/6P100
SW

FRONT-IN

ALS
(Ambient Light Sensor)

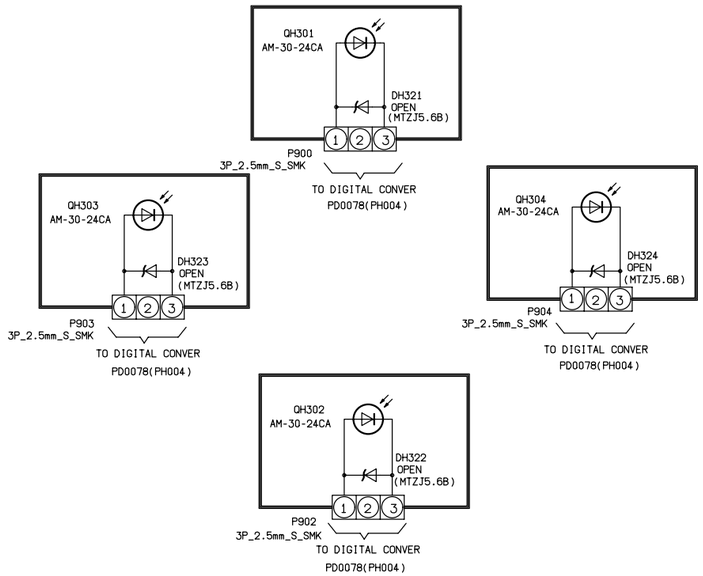
ONTROL



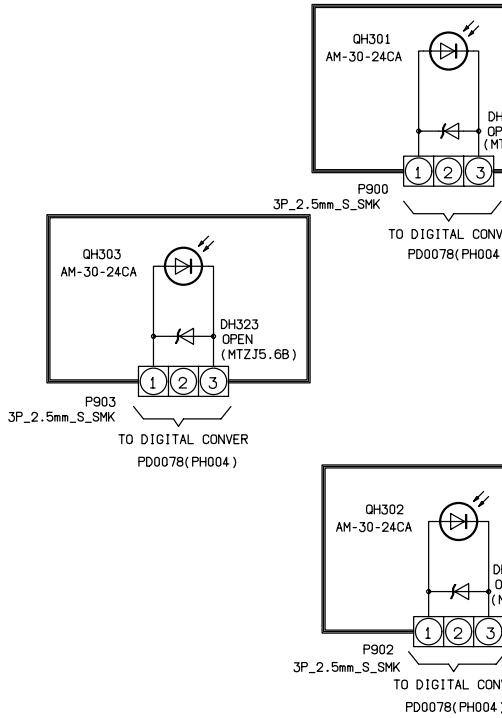
A

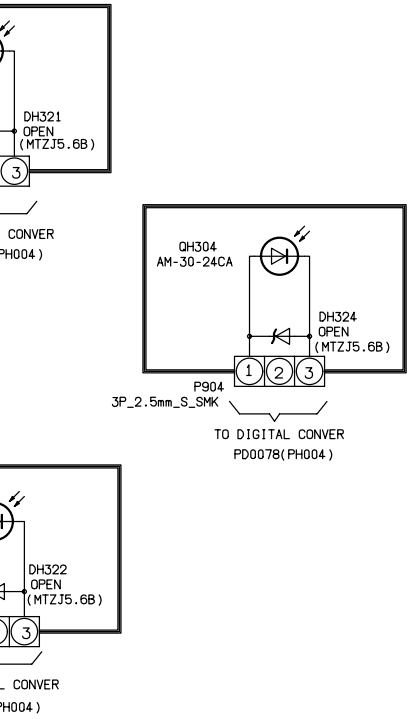
B

51H83/57H83/65H83
FRONT



51H83/57H83/65H83
T.FOCUS-SENSOR

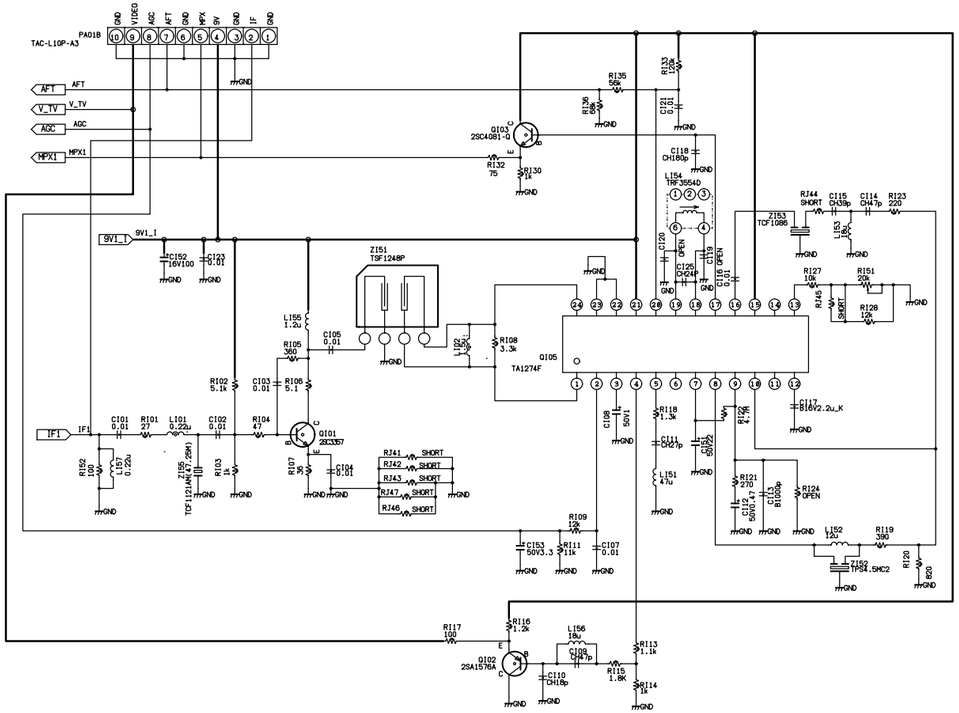

QH301
AM-30-24CA
1
2
3
P900
3P_2.5mm_S_SMK
TO DIGITAL CONV
PD0078(PH004
QH303
AM-30-24CA
DH323
OPEN
(MTZJ5.6B)
1
2
3
P903
3P_2.5mm_S_SMK
TO DIGITAL CONVER
PD0078(PH004)
QH302
AM-30-24CA
1
2
3
P902
3P_2.5mm_S_SMK
TO DIGITAL CON
PD0078(PH004



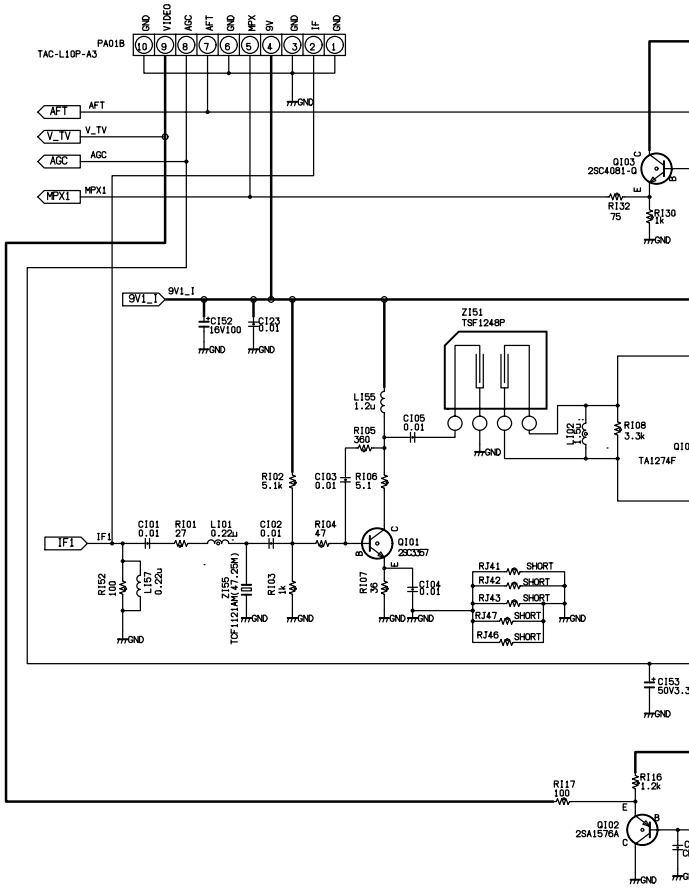
A

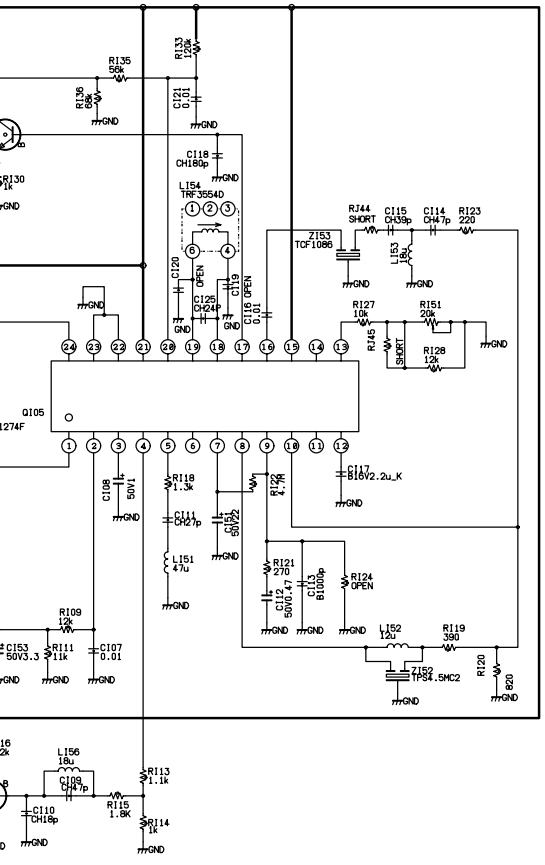
B

51H83/57H83/65H83
T.FOCUS-SENSOR



51H83/57H83/65H83
IF


PA01B
TAC-L10P-A3
GND
VIDEO
AGC
AFT
GND
MPX
9V
GND
IF
GND
AFT
V_TV
AGC
MPX1
9V1_I
IF1
QI03
2SC4081-Q
R132
75
RI30
1k
CI52
16V100
CI23
0.01
ZI51
TSF1248P
L155
1.2u
CI05
0.01
R105
360
R108
3.3k
TA1274F
R102
5.1k
CI03
0.01
R106
5.1
CI01
0.01
RI01
27
LI01
0.22u
CI02
0.01
R104
47
QI01
2SD357
R152
100
LI57
0.22u
ZI55
TCF1121AM47.25M1
R103
1k
R107
36
CI04
0.01
RJ41
SHORT
RJ42
SHORT
RJ43
SHORT
RJ47
SHORT
RJ46
SHORT
CI53
50V3.3
RI16
1.2k
RI17
100
QI02
2SA1576A



51H83/57H83/65H83
IF